



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
707EC021

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
JOHN JOHNSTON
304-558-2402

VENDOR
 *111140344 304-254-7827
HERITAGE EQUIPMENT INC
322 DRY HILL ROAD
BECKLEY WV 25801

SHIP TO
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
ROUTE 33
BRUSHY FORK ROAD
BUCKHANNON, WV
26201 304-472-1750

DATE PRINTED 06/11/2007	TERMS OF SALE <i>Net 10 days</i>	SHIP VIA <i>Body Company</i>	F.O.B. <i>Buckhannon</i>	FREIGHT TERMS <i>Prepaid</i>
BID OPENING DATE: 07/25/2007		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		<i>2008 Sterling</i> 065-30	<i>\$135,079.00</i>	<i>\$135,079.00</i>
<p>64,000 GVW CAB & CHASSIS, STAINLESS STEEL DUMP BODY</p> <p>OPEN END CONTRACT</p> <p>TO PROVIDE 64,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM AS DESCRIBED IN ATTACHED PROCUREMENT SPECIFICATION 377-2-D</p> <p>THERE WILL BE A MANDATORY PRE-BID CONFERENCE AT THE STATE CAPITOL COMPLEX, BUILDING 15, CONFERENCE ROOM, AT 10:00 AM. ON 7/12/07. FAILURE TO ATTEND THE PRE-BID CONFERENCE WILL RESULT IN BID DISQUALIFICATION.</p> <p>QUESTIONS: WRITTEN QUESTIONS WILL BE ACCEPTED THROUGH CLOSE OF BUSINESS (5:00PM EST) ON THURSDAY, 6/28/07.</p> <p>SEND YOUR QUESTIONS TO: PURCHASING DIVISION JOHN JOHNSTON 2019 WASHINGTON ST. E. CHARLESTON, WV. 25305</p> <p>QUESTIONS MAY BE SENT VIA FAX, E-MAIL, OR REGULAR MAIL. E-MAIL: JJOHNSTON@WVADMIN.GOV FAX: 304-558-4115</p> <p>IT IS THE VENDORS RESPONSIBILITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402.</p> <p>EXHIBIT 2</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *John Johnston* TELEPHONE **304-254-7827** DATE **10-17-2007**

TITLE *Fleet Sales* FEIN **550759079** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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<p>NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING THIRTY (30) DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIES BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT</p>						

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<p>THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN EQUIPMENT CONTRACT ORDER (FORM NUMBER WV-35) FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL WV-35 MUST BE SENT TO THE PURCHASING DIVISION OF THE DEPARTMENT OF ADMINISTRATION. AFTER APPROVAL AND ENCUMBRANCE, ONE COPY OF THE PURCHASE ORDER WILL BE RETURNED TO THE SPENDING UNIT AND ONE COPY FORWARDED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT. NO ORDER IS VALID UNLESS APPROVED AND ENCUMBERED BY THE PURCHASING DIVISION.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 9/98</p> <p>EXHIBIT 6</p> <p>PRICE ADJUSTMENT PROVISION: THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT IS BASED ON THE "PASS THROUGH" INCREASE OR DECREASE OF RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF A PRODUCT. ADJUSTMENTS ARE TO BE BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUESTS MUST BE SUBSTANTIATED IN</p>						

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				<p>A MANNER ACCEPTABLE TO THE DIRECTOR PURCHASING, E.G. GOVERNMENTAL BENCH MARKS, GENERAL MARKET INCREASE, PUBLISHED PRICE LISTS. SUCH REQUESTS FOR AND INCREASE SHOULD BE RECEIVED IN WRITING BY THE DIRECTOR OF PURCHASING AT LEAST 30 DAYS IN ADVANCE OF THE EFFECTIVE DATE OF THE INCREASE. ANY TIME THE VENDOR REQUESTS A PRICE ADJUSTMENT, THE PURCHASING DIVISION MAY EITHER ACCEPT THE PRICE ADJUSTMENT AND AMEND THE CONTRACT ACCORDINGLY OR REJECT THE ADJUSTMENT IN ITS ENTIRETY AND CANCEL THE CONTRACT.</p> <p>EXHIBIT 4</p> <p>LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.</p> <p>REV. 3/88</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p>		

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<p>() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>(X) BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>(X) BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A</p>						

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<p>MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING</p>						

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CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY. BIDDER: <u>Heritage Equipment, Inc.</u> DATE: <u>10-17-2007</u> SIGNED: <u>Mick Colman</u> TITLE: <u>Fleet Sales</u> * CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00) NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF						

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT
NO. 377-2-D

OPEN END CONTRACT
64,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND
PISTON PUMP HYDRAULIC SYSTEM

NOTE TO BIDDER: Procurement Specification No. 377-2-D, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report.

FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: 707EC021

Bidder's Name: Heritage Equipment, Inc.

Address: 322 Dry Hill Road, Beckley, WV 25801

Telephone Number: 304-254-7827

Years Bidder has been registered to do business with the State of West Virginia: 8 YRS.

Years Company has been an authorized dealer for proposed unit: 6 YRS.

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 150 Calendar Days After Date of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 240 Calendar Days After Date of Purchase Agreement

X5.0 AWARD CRITERIA;

X5.1	Prices for quantities of	1-25	<u>\$135,079.00</u>	per unit
		26-50	<u>\$135,079.00</u>	per unit
		51 and over	<u>\$135,079.00</u>	per unit

X6.0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

Sterling,LT9511,L-Line,2008

Is descriptive literature, fully describing proposed unit attached to your bid? X YES NO

If not, why? _____

X6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units? X YES NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit? X YES NO

X6.3 TRAINING:

Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training
 X YES NO

Will you conduct training with each purchase order against this open end contract?
 X YES NO

Will training be conducted within 2 working days from the delivery of the pilot unit on the individual purchase order?
 X YES NO

If NO, explain time frame _____

Will an Operator's Manual be furnished directly to Letha Lamb Training Academy prior to the delivery of the pilot?
 X YES NO

X6.4 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training?
 X YES NO

X6.4.1 Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit?
 X YES NO
If NO, explain _____

X6.5 WARRANTY AND SERVICE POLICY

Will the warranty and service you provide comply with the minimums in all areas as stated in Section 6.5 of specifications
 X YES NO

Is warranty literature attached?
 X YES NO

Will the equipment have a valid and current state inspection sticker?
 X YES NO

List all extended service contract coverages, published and not published along with a cost as options. Also, provide manufacturers hours vs. miles conversion.

see attached

X6.6 EVALUATION COMMITTEE REQUIREMENTS

Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? X YES NO

X6.7 Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry? X YES NO

X6.7.1 Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished? X YES NO

X6.7.2 Are all standard safety features that are required by Federal and State statutes of law included? X YES NO

X7.0 SPECIFICATIONS OF THE QUOTED UNIT

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.

X8.0 Specifications – Cab and Chassis

Manufacturer: Sterling Model: LT9511

Will a minimum 2 year basic bumper to bumper warranty including parts and labor be furnished? X YES NO

X8.1 GVWR Rating: 64,000 Lbs.

X8.2 Cab to Axle Dimensions: 126 Inches usable

X8.2.1 After frame length: 63 Inches

X8.3 Wheelbase: 209 Inches set forward design for snowplow application for various plows X YES NO

X8.3.1 Have you adjusted wheelbase and CA dimension to provide the optimum legal weight distribution? X YES NO

X8.3.2 BBC (Bumper to Back of Cab) 111 Inches excluding frame extension

X8.4 Frame:

Does the frame meet or exceed all Federal requirements for GVWR specified that extends forward beyond the grille a minimum of 14 inches? X YES NO

- X8.4.1 Frame material 120,000 PSI yield strength. Is frame extension a "parent rail" material?
 YES NO
- X8.4.2 RBM: 2.59 million Ins/Lb. per rail Single frame rail YES NO
- To assure space for installation of spinner chute, are the truck chassis frame rails free of obstruction inside the frame rails and along the left outside frame rail in an area approximately 23 inches from the back of the cab
 YES NO
- X8.4.2.1 Where engine and radiator adjustments are required, 2.59 million in lb. per rail (RBM).
- X8.4.3 Is main frame and any required liners straight channel or offset channel, full length
- X8.4.4 Is frame RBM approved by manufacturers Engineering Department?
 YES NO
 Is it bolt on or welded extension?
 YES NO
- X8.4.5 Does front frame accommodate the Department's standard hydraulic PTO shaft and pump, and the plow frame?
 YES NO
 Does it provide easy service accessibility?
 YES NO
- X8.4.5.1 Front frame mounted tow hooks YES NO
- X8.4.5.2 Has the factory installed front bumper been omitted YES NO
- X8.5 Cab:
 Manufacturers standard steel, aluminum and/or fiberglass with premium or manufacturers highest level interior trim with inside noise level rating not to exceed 80 dba in compliance with Federal regulations
 YES NO
- Ambient temperature display for outside temperature YES NO
- Is hood a tilt hood YES NO
- Fenders steel and/or fiberglass YES NO
- Is rear air bag suspension provided YES NO
- Are inner fender panels adequate to keep materials from engine compartment YES NO
- X8.5.1 Cab door locks, both doors, keyed alike YES NO
- X8.5.2 Dual sun visors YES NO
- X8.5.3 Arm rests, both sides YES NO

- X8.5.4 Seats: Fully adjustable air ride high back with head rest, cloth covered both left hand and right hand sides X YES NO
 Clearance between seats 17 inches
- X8.5.5 Floor mats: Rubber floor mats throughout cab area with non-absorbent backing under mats X YES NO
- X8.5.6 Turn signals: Manufacturers standard with hazard warning switch X YES NO
- X8.5.7 Heater and defroster: Fresh air type, heaviest duty X YES NO
- X8.5.8 Windshield wipers and washers: Manufacturer's heaviest duty "artic type" with intermittent feature with manufacturers largest reservoir filled with antifreeze type solvent X YES NO
- X8.5.9 Instruments: Are all instruments dash mounted except where specified otherwise? X YES NO
 Are all standard instruments supplied, including but not limited to the following: X YES NO
- X8.5.9.1 Coolant, oil pressure gauges, to have both dial type readout and either an audible or visual alarm to warn operator when safe operating conditions are exceeded X YES NO
- X8.5.9.2 Voltmeter or ammeter X YES NO
- X8.5.9.3 Engine RPM tachometer X YES NO
- X8.5.9.4 Speedometer with odometer X YES NO
- X8.5.9.4.1 Are provisions for dual speedometer leads made available X YES NO
- X8.5.9.5 Primary air pressure gauge X YES NO
- X8.5.9.6 Auxiliary air pressure gauge X YES NO
 Is it combined with primary air pressure gauge X YES NO
- X8.5.9.7 Air filter manufacturers heaviest duty dual element type that meets all requirements of extended engine warranty X YES NO
- X8.5.9.8 Does unit have front air intake YES X NO
 Is an air actuated or cable control valve provided to enable operator to divert air intake to engine compartment while in snow plowing application YES X NO
- X8.5.9.9 Is air filter restriction indicator gauge dash mounted X YES NO
- X8.5.9.10 Engine hourmeter controlled by engine operation X YES NO
- X8.5.9.11 Fuel level reading X YES NO

- X8.5.9.12 Parking brake dash controlled with indicator light YES NO
- X8.5.9.13 Manufacturers best sound/weather insulation package for proposed cab YES NO
- X8.5.9.14 Outside temperature control with in cab digital read out YES NO
- X8.5.10 Rearview Mirrors:
- X8.5.10.1 West coast type power adjustable with convex spot mirror YES NO
Size: 7"x15"
- X8.5.10.2 Both mirrors heated type with stainless steel composite powder coated or aluminum hardware with corrosion resistance, heads, and fasteners YES NO
- X8.5.11 Grab Handle: Right hand and left hand sides, internal or external mounting to rear of door opening YES NO
Are inside handles featured YES NO Is one (1) outside, left, mounted grab handle with non-slip insert for bed aggregate inspection furnished
- X8.5.12 Air horns, with snow shields if cab mounted, with adequate clearance for future installation of body dump cab protector YES NO
Does it have single air horn used without snow shield if mounted downward on frame rail under hood YES NO
- X8.5.13 Unit includes lockable hand operated throttle control or electronic control for idle up and idle down for hydraulic flow rate YES NO
- X8.5.14 Will manufacturer provide for stationary grille or grille with cutout area to allow tilt hood to clear snow plow mount YES NO
Is stone/gravel guard provided YES NO
- X8.5.15 Air conditioning: Manufacturers fresh air type heaviest duty with APADS or equal RCD system including replaceable fresh air filter YES NO
- X8.5.16 Radio: AM/FM stereo with weatherband radio feature YES NO
- X8.5.17 Glass: Manufacturers tinted safety glass (all locations) YES NO
- X8.5.17.1 Dual power windows YES NO
- X8.5.18 Manufacturers engine cover or dash mounted extended two (2) cup drink holder YES NO
- X8.5.19 Front mudflaps manufacturers standard for unit bid YES NO

- X8.5.20 Emergency triangle warning kit, with hold down stowed (fastened) in the cab YES NO
 Manufacturer & Model: James King &Co model 1005
- X8.5.21 Manufacturers tilt steering column with cruise control feature YES NO
 OR
 Locking hand operated throttle steering wheel YES NO
 Diameter: 18 inches
- X8.5.22 Fire extinguisher – rechargeable with vehicle mount. Mounted in the cab for easy and quick access YES NO
 Manufacturer & Model: 720-003 5 lb.
- X8.5.23 List any accessories not indicated above but are included in the manufacturer's standard cab
Fresh Air AND Recirculating Air Filters in Cab
-
- X8.5.24 If you are the successful vendor, will you provide WVDOH with complete list of all filters required for normal maintenance on proposed unit. YES NO
- X8.6 Engine:
- X8.6.1 Will engine manufacturer make provisions for front mounted hydraulic pump to crankshaft pulley YES NO
 Manufacturer & Model: Spicer 1350
- X8.6.1.1 Diesel engine? YES NO
 HP: 370 Peak torque 1450 lbs. ft.
- X8.6.1.2 In block engine heater 1500 watt YES NO
- X8.6.1.2.1 Is electrical cable from the heater to plug one piece and waterproof, located left side under driver door YES NO
- X8.6.1.3 Fuel heater/water separator provided inside of engine compartment YES NO
 Manufacturer: Alliance
- X8.6.1.3.1 Engine fuel system equipped with primer pump YES NO
- X8.6.1.4 Exhaust:
- X8.6.1.4.1 Single vertical exhaust pipe with underbody muffler that will meet all Federal noise abatement requirements YES NO
 Exhaust to the passenger (right) side of unit YES NO

X8.6.1.4.2 Is tail pipe shielded or insulated to protect personnel from burns when entering or exiting the cab YES NO

The shield is 180 degrees to 180 degrees and of non-rustable material such as stainless steel or aluminum YES NO

Manufacturer: Sterling

X8.6.1.4.3 Exhaust pipe with rain cap or exhaust turn out YES NO

X8.6.2 Jacob's Engine Brake Cummins C-Brake Mack Power Leash compression and exhaust or equal _____

X8.6.3 Are engine components facing wheel areas, on both sides, and the areas to the rear of wheels shielded by means of rubber skirts supported by easily removable steel rods Built into hood splash guards YES NO

X8.6.4 Engine oil pan is zinc nickel plated aluminum or non-corrosive coated

X8.7 Clutch:

X8.7.1 Externally lubricated and manually adjusted with torque limiting clutch brake YES NO

X8.7.2 Clutch adjustment set to specifications prior to delivery to the Department YES NO

X8.7.3 Is clutch dual plate ceramic clutch YES NO

Size: 15 1/2 inch Kwik adjust (manual feature) YES NO

Manufacturer and model: Eaton-Fuller ceramic 2 plate with 7 spring damper YES NO

X8.7.4 Does clutch meet or exceed peak engine torque YES NO

X8.8 Cooling System: Is it capable of maintaining engine temperature within the manufacturer's recommended range during continuous operation YES NO

X8.8.1 Does the system incorporate a thermostat and bypass for warm up YES NO

Is it filled with permanent type Dex Cool extended life or equal antifreeze rated to a -30° F or lower YES NO

Is it a low silicate type antifreeze for diesel engines only YES NO

X8.8.2 Is it the largest factory available engine cooling capacity compatible with engines and transmission referenced and for continuous high engine output under extreme temperatures and/or operating conditions due to prolonged snow plowing operations in low gears YES NO

- X8.8.3 Is unit fitted with provisions for visually monitoring coolant without necessitating removal of the cap from the radiator or expansion tank YES NO
- X8.8.4 Does the radiator mounting provide adequate clearance to facilitate the installation of a crankshaft driven PTO drive shaft YES NO
- X8.8.5 Distance between the extreme tip of the radiator fan blade and the centerline of the crankshaft to insure adequate clearance for PTO drive shaft: 3 inches
- X8.8.6 Radiator and heater hose manufacturer: Gates Blue Stripe
- X8.9 Fuel Tanks:
- X8.9.1 Safety type aluminum fuel tanks as required by FMVSS YES NO
- X8.9.2 Single aluminum usable: 60 U.S. gallon; frame mounted YES NO
- X8.9.3 Driver and passenger entrance steps-grated self cleaning safety step YES NO
- X8.9.3.1 Are all edges banded (skirting) on the outer perimeter YES NO
- X8.9.3.2 Top of first step above ground: 22 inches
- X8.9.4 Is a fuel draw system provided that meets all Federal 2007 emission standards YES NO
- X8.10 Electrical System:
- X8.10.1 Type: Manufacturer's 12 volt negative ground system with manufacturers radio interference Suppression YES NO
- X8.10.1.1 Circuit breaker equipped, in easily accessible location, weatherproof YES NO
- X8.10.2 Three (3) or four (4) heavy duty – 12 volt batteries, maintenance free with sealed terminals YES NO
- X8.10.2.1 Reserve capacity: 555 minutes @ 80 degrees F
- X8.10.2.2 Cold crank AMPS: 2775 total @ 0 degrees F
- X8.10.3 Alternator capacity: 160 AMPS with internal regulator YES NO
- X8.10.4 Wiring: Heavy duty hypalon type or equal in heavy duty sheathing, bundled with lacing cords or non-metallic tie straps YES NO
- X8.10.5 Lighting: Are provision made available for all required lighting on completed unit (number, location, and color) to conform to the West Virginia Motor Vehicle Code YES NO
- X8.10.6 Auxiliary snow plow/salt spreader lighting package YES NO

- X8.10.6.1 Truck vendor will provide 4 feet of wiring bundled at the end of the frame for body vendor hook up of tail lights and etc. in the dump bed body 4 YES NO
- X8.10.7 approved Will manufacturer X or successful vendor make provisions for manufacture wiring and weatherproof disconnect plug X YES NO
- Manufacturer and Model: PAC12110751
- seven (7) pin connector X YES NO with 3 foot "pigtail" to operate combination left and right turn/park lights/auxiliary headlights X YES NO
- X8.10.7.1 Are provisions for weatherproof disconnect plug located at lower left front grille-bumper area X YES NO
- All wiring connections weatherproof with wiring encased in wire looms X YES NO
- X8.10.7.2 Is a 7 way trailer connection light socket mounted at rear of truck frame X YES NO
- Manufacturer and Model: SAE J560 - equal
- X8.10.7.3 Has manufacturer provided body builder circuit interface capability with connection plug to be located at rear of frame for body builder connection to stop, tail, and marker light circuits, ignition controlled auxiliary feed to ground to provide splice free chassis wiring integrity X YES NO
- X8.10.7.4 Has manufacturer provided body builder circuits – three (3) switches X YES NO located in the dash instrument panel with one (1) weather protected body builder connection box or module located at the rear under cab X YES NO
- 20 amps per channel, 80 amp maximum output X YES NO
- Do dash switches control the power module with LED backlighting X YES NO
- X8.11 Power Train Overview:
Do lubricants for front axle hubs and differentials, manual transmission, transfer cases, and all rear differentials meet or exceed all appropriate MIL and SAE specifications for synthetic lubricants and all plugs identified as synthetic or painted red X YES NO
- X8.11.1 Transmission: Eaton Fuller RTO-14908LL transmission oil cooler X YES NO
- X8.11.1.1 Magnetic drain plug X YES NO
- X8.11.1.2 Does transmission torque capacity meet or exceed specified engine torque X YES NO
- X8.12 Driveline:
- X8.12.1 Manufacturer and Model: Meritor 18N Main/ 17N interaxle - equal

X8.13 Rear Axle:

X8.13.1 Manufacturer and Model: Meritor RT-46-160-P

X8.13.2 Is each unit equipped with driver controlled main locking differential in forward and rear axle that is manually cab controlled X YES NO

X8.13.3 Ratio: Does gear ratio determined give the vehicles the capability of a top speed of approximately 70 MPH X YES NO
If not 70 MPH, please specify MPH

X8.13.4 Is housing aluminum or other lightweight material YES X NO

X8.13.5 Rear wheel seals: Chicago Rawhide Scotseal plus XL
X8.13.6 Drain plug, magnetic X YES NO

X8.14 Front suspension:

X8.14.1 Capacity at ground each front spring 10,000 lb.
Total spring capacity 20,000 lb.

X8.14.2 Are the front spring pins or bearings/bushing furnished with 360 degree grease grooves to insure adequate lubricant penetration X YES NO

X8.14.3 Are spring hangers heavy castings with sufficient pin and bearing surface to render trouble free service X YES NO

X8.15 Rear suspension: Hendrickson RT463

X8.16 Front Axle:

X8.16.1 Capacity: 18,000 lbs.

X8.16.1.1 Does the front axle, drag links, and tie rods have grease zerks installed X YES NO

X8.16.2 Heavy duty shock absorbers X YES NO

X8.16.3 Oil lubricated front wheel seals X YES NO Manufacturer: Stemco/CR Scotseal

X8.16.4 Does unit provide adequate tire clearance at maximum turning angles X YES NO

X8.17 Brakes

X8.17.1.1 Type: Full air, with manufacturers ABS in compliance with the most current FMVSS requirements X YES NO

X8.17.2 Compressor: Manufacturer and Model: Wabco 15.5 cu. ft.

X8.17.3 Service Brake Size:

X8.17.3.1 Front: 16 1/2" x 6" "S" cam OR power front disc brake system providing equal performance

- X8.17.3.2 Quick change type single _____ OR double anchor pin if drum type brakes X
- X8.17.3.3 Rear: 16 1/2"x7" "S" cam with quick change type single _____
OR double pin X
- X8.17.3.4 Are all brake chambers sealed brake chambers with epoxy exterior coat on front and rear
Chambers X YES _____ NO
- Manufacturer: Haldex Goldseal
- X8.17.4 Do drum brakes have automatic slack adjusters and are clearance sensing type only, with
adjustment on application of the brake X YES _____ NO
- X8.17.5 Parking Brake: Rear wheel spring type – severe service spring brakes X YES _____ NO
Manufacturer and Model: Haldex Goldseal
- X8.17.5.1 Does parking brake provide modulated emergency braking via the foot valve in the event
of a rear service system failure X YES _____ NO
- X8.17.6 Air dryer with heater 24 inches above road service
Manufacturer and Model: Bendix AD-9
with spin on desiccant cartridge or equal X YES _____ NO
- Is the installation made in concurrence with the air compressor manufacturer's recommendations
 X YES _____ NO
- X8.17.6.1 Are all electrical connectors for drain valve and air dryer covered with heat shrink
material or have sealed connections X YES _____ NO
- X8.17.7 Manufacturer's standard air tanks for service brakes X YES _____ NO
Auxiliary tank for parking brake X YES _____ NO
- X8.17.8 Low air pressure warning light and buzzer X YES _____ NO
- X8.17.9 Rear service brake chambers and spring brake chambers mounted to provide adequate clearance
for tire chains and backing into bituminous paving machines X YES _____ NO
Factory installed X YES _____ NO
- X8.17.10 Brake dust covers installed on all wheels X YES _____ NO
- X8.17.11 Unit equipped with hand control valve, tractor protection valve, with provisions for installation
of glad hands at rear of truck to enable unit to pull air brake operated equipment trailer
 X YES _____ NO
- X8.17.11.1 Are glad hands recessed as not to stick out past the end of frame rails
 X YES _____ NO

X8.18 Tires and Wheels:

X8.18.1 Truck equipped with hub piloted steel disc wheels for tubeless tires YES NO

X8.18.2 Wheel end equipped with outboard cast brake drums YES NO

15 degree tubeless steel wheels, hub piloted, 10 hole – 285.75mm bolt circle with 220mm two-piece flange nuts YES NO

X8.18.3 Front:

X8.18.3.1 Wheels: Size: 22.5"x9.00"
10 hole 285.75 mm bolt circle with 220 mm bore, tubeless steel disc YES NO

Rated at 10,000 lbs. at a maximum inflation pressure of 130 PSIG.

Manufacturer and Model: Accuride 29039
With 0.500 inch thick disc, non standard off set with steel hubs YES NO

Powder coated with color similar to gray YES NO

X8.18.3.2 Tires: 315/80R22.5 20 Ply

X8.18.4 Rear:

X8.18.4.1 Wheels: Size: 22.5"x 8.25"
10 hole – 285.75 mm bolt circle with 220mm bore, tubeless steel disc YES NO

Rated at 8,000 lbs. at a maximum inflation pressure of 120 PSIG

Manufacturer and Model: Accuride 29169
With 0.472 inch thick disc YES NO

Powder coated with color similar to gray YES NO

X8.18.4.2 Tires: 11R22.5H 16 ply

X8.18.4.3 Does the dual rear wheel/tire assembly have clearance between the tires, which permits the use of dual tire chains YES NO

X8.18.5 All wheels have wheel separators YES NO

X8.18.6 Radial Tires:

Front Radial Tire: Manufacturer and Model: Goodyear G287

Rear Radial Tire: Manufacturer and Model: Goodyear G-244 MSD

X8.19 Steering:

X8.19.1 Power steering: Dual integral OR single integral type hydraulic power steering with right wheel power-assist cylinder YES NO

X8.19.2 Steering system: (flow, pressure, relief valve etc): THP-60 & RCH 45 Auxiliary Gear

Manufacturer: TRW

X8.19.3 Hydraulic supply pump: Vane type OR roller type with sufficient oil flow to permit one (1) steering wheel revolution per second with front axle loaded to rated capacity, with plow on, in a "park" condition YES NO

Manufacturer and Model: TRW -PS

X8.19.4 Is the pump the integral filter type unit YES NO

X8.19.5 Power steering reservoir:
"Remote mounted" YES NO

Capacity: 4 qt. Filter is easy to remove and replace YES NO

X8.19.6 Is the remote filter factory mounted, certified, and engineering approved in conjunction with the appropriate pump YES NO

X8.20 Features considered as standard equipment but not addressed:

Power Steering Oil Cooler

X8.21 Paint: Describe proposed method of painting:

Manufacturer's standard procedures of cleaning, degreasing, preparing, priming and painting with a polyurethane enamel white as requested.

X8.22 Detail/Decorative Stripes with Logo:

X8.22.1 Width: 4 inches

X8.22.2 Will WVDOH logo area comply with 8.22.2 of specification YES NO

X8.22.3 Does conspicuity striping material provided meet requirements of Section 8.22.3 through 8.22.8 of specification YES NO

X8.23 Does unit offered meet or exceed "Occupational Safety and Health Act of 1970" YES NO

X8.24 Does unit conform to the advertising guidelines YES NO

X8.25 Preventive Maintenance and Operator's Training School

X8.25.1 Will a preventive maintenance and operator's training seminar be provided YES NO

X8.25.2 Will booklets and pamphlets be furnished to be used by the operators YES NO

X8.25.3 Will you furnish all training aids; i.e. videos, projectors, etc. required in conducting the training YES NO

X9.0 SPECIFICATIONS - 304 STAINLESS STEEL COMBINATION DUMP/SPREADER BODY

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.

Bidder: ACE TRUCK EQUIPMENT CO.

Address: 1130 NEWARK RD. ZANESVILLE, OH 43701

Telephone Number: 740.453.0551

Years company has been an authorized dealer for proposed unit: 12 years

Manufacturer, model, series, and date of manufacture of proposed combination dump/spreader body:

HENDERSON MUNT-WV 07

Is descriptive literature full describing proposed combination dump/spreader body attached to your bid proposal? YES NO

If NO, refer to specification statement Section 6.6

When will required number of operating manuals, service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon? prior to deliver of unit or WITH EACH UNIT

Does the combination dump/spreader body have a minimum two (2) year basic bumper to bumper Warranty including parts and labor? YES NO

X9.1 Body capacity: 12.7 cubic yards water level

X9.2 Sideboard pockets and tailgate height provides additional capacities of 2 to 5 cubic yards

X9.3 Front body bulkhead: 3/16" inch 304 stainless steel

X9.4 Does cab shield have sufficient clearance to ensure shield will not hit exhaust when dumping on uneven Terrain YES NO

X9.5 Two (2) front truck frame mounted tow hooks or eyes accessible through bumper YES NO

X9.6 Dimensions:

- X9.6.1 Inside length of body: 174 inches
- X9.6.2 Inside width of body: 88 inches wide to maximize capacity and lower the center of gravity
- X9.6.3 Outside width of body: 95 at the integral fenders
- X9.6.4 Body spacing from cab 4 inch
- X9.6.5 Basic side height: 45 inches (measure from the floor to top rail)
- X9.6.6 Tailgate height: 53 inches (measure from the floor to top rail)
- X9.6.7 Body overhang: 10-18 inches (measure from center of hinge pin)
- X9.6.8 Cab protector: 22 inches x 94 inches with adequate clearance for cab mounted air horns

X9.7 Cab protector sloped rearward for drainage purposes X YES NO

X9.8 Construction of the body sides, front, head, and tailgate:

Steel type: 304 STAINLESS STEEL

X9.8.1 Floor: 1/4" inch thickness 304 stainless NO OR abrasion resistant AR400 YES

X9.8.2 Sides: 3/16 inch thickness

X9.8.3 Tailgate plate: 3/16 inch thickness

X9.8.4 Top rail: 3/16 inch thickness

X9.8.5 Cab protector: 10 gauge

X9.8.6 Longitudinal: 10 inch/ 7 gauge 304 stainless steel formed inner/
10 gauge 304 stainless steel formed with internal stainless steel gussets every
30 inches

X9.8.7 For future potential pre-wet application, will the combination body be capable of accepting frame mounted approximately 85 gallon poly liquid tanks X YES NO

Is the body designed to allow maximum protection to the tanks X YES NO

X9.9 Is all the welding inside the body continuous and not skip welded X YES NO

Are all rails and posts continuous welded X YES NO

- X9.10 Are the rear corner posts full length, one (1) piece construction YES NO
- X9.10.1 Will a rear bolt on spreader apron be provided unless integrated into the rear of the bed YES NO
- X9.11 Cab protector sides, formed with gussets, extending forward 22 inches
Clearance above highest point of cab is 3 inches
- X9.12 Is body a unibody design – no crossmembers YES NO
- X9.12.1 Does the body have one (1) piece sides and floor which incorporates a sloping floor to side radius to adequately feed material to conveyor chain YES NO
- X9.12.2 The sides of the body slope to the conveyor to facilitate self cleaning of body without raising YES NO
- X9.13 The boxed top rail slopes inward to shed debris YES NO
- X9.14 Full length 304 stainless steel integral rear fenders are continuously welded and positioned over wheels of the truck chassis YES NO
- X9.15 Is there an integrated center conveyor providing the ability of the body to convey granular materials with the body down YES NO
- X9.15.1 Does the conveyor have 12 inches or less truck frame to body floor height for lower center of gravity and lower mounting height YES NO
- X9.15.1.1 Will wood products be used between truck frame and bed YES NO
N/A CONVEYOR LONG SILLS SIT DIRECTLY ON TRUCK FRAME.
- X9.15.2 1/4 inch 304 stainless steel NO conveyor floor OR abrasion resistant steel (AR400)YES
- X9.15.3 2 inch diameter front and rear shafts with eight (8) tooth sprockets YES NO
- X9.15.4 Drive sprockets are double keyed to shaft YES NO
- X9.15.5 Conveyor width: 25 inches
- X9.15.6 Is conveyor reversible YES NO
- X9.15.7 Is conveyor driven with 25:1 planetary gearbox drives on both the front and rear shafts YES NO
Hydraulic motors 5.0 CIR
- Does one (1) motor have an integral conveyor speed sensor YES NO
- X9.15.8 Is conveyor chain D667K pintle type (24,500 lb. tensile/strand) YES NO
With 3/8 inch x 1 1/2 inch conveyor crossbars welded to every link
- X9.15.9 Is there a 10 gauge 304 stainless steel bolt in pan under the conveyor to keep material off chassis frame YES NO

- X9.16 Does the body have the capability to convey to the front or the rear with a material spinner for distributing material YES NO
- X9.16.1 For front spreading, is there a front feedgate integrated into the head sheet of the body no less than 8 inches x 24 inches with infinite adjustment positions YES NO
- X9.16.2 A 304 stainless steel front spinner chute mounted between chassis frame rails and with the body down be completely enclosed to prevent material from dropping on chassis drive shaft YES NO
- X9.16.3 For rear spreading, a 7 gauge 304 stainless steel 10-12 inch x 24-26 inch Rear feedgate in the body tailgate YES NO
- X9.16.4 Is rear feedgate lever operated YES or screw adjustable NO The feedgate capable of being positively locked into position YES NO
- X9.16.5 Is the front spinner bracket and chute mounted to the truck chassis frame and for rear spreading capability the rear spinner chute and brackets installed by successful vendor YES NO
- X9.16.6 Is the spinner assembly universal and may be used at front or rear YES NO
- X9.16.7 Is the spinner assembly adjustable left to right, and up and down to assure accurate placement of material on spinner disc to facilitate control of spread pattern YES NO
- X9.16.8 Does 10 gauge 20 inch diameter spinner disc have replaceable machined hub YES NO
- X9.16.9 Is spinner disc vanes 409 NO or 304 YES stainless steel
- X9.16.10 If spinner hydraulic motor is mounted on top of spinner disc, the motor is enclosed in a removable material shedding protective cover YES NO
- X9.17 Hydraulic Hoist:
 - X9.17.1 Is it a trunnion mount or top lift telescopic hoist
 - X9.17.2 Is telescopic hoist no less than N.T.E.A. Class 70 YES NO
 - X9.17.3 Is single hoist cylinder trunnion mount or top lift
 - X9.17.4 Does hoist cylinder have three (3) stages with 135 inches of stroke with a six (6) inch diameter first stage YES NO
 Manufacturer and model: MAILHOT CS.135-6-3
 - X9.17.5 Does the cylinder have wear and corrosion resistant nitrided cylinder tubes YES NO

- X9.17.6 Cylinder warranty: 2 years
- X9.17.7 Does a five (5) degree oscillating cylinder collar protect the cylinder against side stress, if trunnion mount cylinder provided YES X NO
NOT APPLICABLE
- X9.17.8 Does the body have 6 inch x 8 inch x 1/2 inch structural angle rear hinge assembly installed in the truck chassis frame X YES NO
- X9.17.9 Does the rear hinge assembly have cold roll steel hinge pins connecting to 2 1/2 inch hinge blocks with grease zerks X YES NO
- X9.18 Are the following features included:
- X9.18.1 Warning light (bed raised) console mounted X YES NO
- X9.18.2 Hydraulic oil level reading X YES NO
- X9.18.3 Safety decals as required X YES NO
- X9.18.4 304 stainless steel mud guards, 10 gauge x 24 inches x 30 inches permanently attached in front of rear wheels X YES NO
- Will body vendor align exhaust stack for body clearance X YES NO
- X9.18.5 304 stainless steel shovel bracket X YES NO
- X9.18.6 304 stainless steel gussets (board pockets) for 4 inch x 6 inch lumber (rough) located at front and rear and mid-rail X YES NO
- 4 inch x 6 inch (rough) oak sideboards supplied and bolted through the gussets X YES NO
- Painted aluminum to match the body X YES NO
- X9.18.7 Does the unit have air operated tailgate with dual brake chamber air tailgate latches (one on each side) X YES NO
- Pivot shafts included stainless steel bushings to eliminate seizing X YES NO
- X9.18.8 1 1/2 inch 304 stainless steel grip strut walk rail installed on both sides of the body X YES NO
- X9.18.9 OSHA approved backup alarm, electronic ambient, adjusts to background noise, 112 dba shock mounted at the rear X YES NO
- X9.18.10 OSHA approved body support, both sides X YES NO
- X9.18.11 Unit equipped with 49,000 lb. capacity pintle hook centered between rear frame rails X YES NO

Manufacturer and Model: WALLACE B30

Height from ground level to center line of pintle "eye": 32 inches

- X9.18.12 Air deflector-hood mounted, blue or smoke YES NO 70
- Deflector manufacturer's standard width for truck mode
Width: DEPENDS ON CHASSIS MAKE YES NO
- Access to front end hood tilt handle YES NO
- Extra handle YES NO
- X9.19 Lighting: Weather/shock resistant lights LED type with average amp draw between .045 - .72
 YES NO

Manufacturer and Model: TRUCK LITE MODEL #0

All connections have sure snap plug assemblies and epoxy sealed electronics to protect against shock and vibration YES NO

- X9.19.1 All marker lights 2 1/2 inch diameter flush mount sealed beam lights with integral reflector mounted in rubber base TRUCK LITE TL10250R YES NO
- X9.19.2 All ground wires attached with plated steel fasteners YES NO
- X9.19.3 Rear lights shock mounted, recessed oval stop, tail, turn, and recessed oval back up lights mounted in back post TRUCK LITE TL60250R YES NO
- Strobe lights marked and switched from dash board location YES NO
- Manufacturer and Part #: TRUCK LITE 60360Y
- X9.19.4 Center rear I.D. lights three (3) located in truck chassis YES NO
- X9.19.5 Two (2) amber oval LED strobe lights mounted at the front corners of the cab protector, and two (2) amber oval LED strobe lights mounted at each outside corner of the cab protector YES NO

Manufacturer and Part # of Both Locations: TRUCK LITE 60360Y

Strobe lights marked and switched at dash board location YES NO

- X9.19.6 Auxiliary headlights for snowplowing application shock mounted on fender of unit YES NO
- Manufacturer and Part #: TRUCK LITE 80853
- X9.19.7 Two (2) oval amber LED strobe lights mounted at top of rear corner posts right and left sides and switched in combination with cab protector strobe YES NO
- Manufacturer and Model: TRUCK LITE 60360Y
- X9.19.8 Two (2) front frame mounted tow hooks YES NO
- X9.19.9 Lighted license plate bracket YES NO

X9.20 Are the following at the front or rear both sides of the body:

- X9.20.1 304 stainless steel fold down ladder that locks into position when either in the down or up position YES NO
- X9.20.2 Two (2) 304 stainless grab handles YES NO
- X9.21 Tailgate (304 stainless steel): YES NO
 - X9.21.1 Tailgate hinged at top, flame cut hardware, pork chop type off-set hardware to achieve maximum opening of tailgate, but has provision for pivoting at the bottom YES NO
 - X9.21.2 Flush mount, 1/2 inch flame cut 304 stainless steel tailgate pivots YES NO
 - X9.21.3 Heavy duty offset hinge plates, one (1) inch flame cut 304 stainless steel YES NO
 - X9.21.4 3/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless steel latch plates YES NO
 - X9.21.5 Full perimeter 304 stainless steel boxing with all horizontal edges sloped outward YES NO
 - X9.21.6 Two (2) 10 gauge 304 stainless steel sloped horizontal braces that are flush with perimeter Boxing YES NO
 - X9.21.7 7 gauge 304 stainless steel 10-12 inch x 24- 26 inch rear feedgate YES NO
 - X9.21.8 Cold roll steel upper pins with grease zerks YES NO
 - X9.21.9 Top hinge channel has removable, chain tethered keeper pins YES NO
 - X9.21.10 Latching action at the bottom of gate operable by the truck driver without leaving the truck cab YES NO
 - X9.21.11 Gate is self aligning YES NO
 - X9.21.12 Tailgate lower latch pins 304 stainless steel 1 1/4 inch diameter YES NO
 - X9.21.13 Body integrated or bolt on 304 stainless steel 15 inch spreader apron YES NO
- X9.22 Design and strength characteristic of the entire body such that the unit structural members and the hoisting system will not suffer any deformation, damage, or structural failure resulting from raising a distributed full payload YES NO

9.23 Bumper:

- X9.23.1 Bumper formed out of 1/4 inch roll steel YES NO
Weighs 10.20lbs. per square foot

X9.23.2 Bumper face covers all of truck frame (12 inches) with two (2) flanges of 2.25 inches top and bottom X YES NO

X9.23.3 Overall width of bumper: 94 inches

X9.23.4 Bumper straight across front from centerline of truck chassis 21 inches each side of Centerline, making bumper straight 42 inches long in center with ends swept back 30 degrees and 27 inches each side.

X9.23.5 Bumper has two (2) access holes for utilization of tow hooks X YES NO

X9.23.6 Upper and lower flanges cut and welded solid at point where bumper is bent and ground off smooth X YES NO

X9.23.7 Bumper mounted by two (2) mounting angles bolted to front of truck frame with two (2) 5/8 inch bolts each side X YES NO

X9.23.8 Mount angle 3/8 inch x 3 inches x 8 long with four (4) 5/8 inch holes X YES NO

X9.23.9 Paint on front bumper: BLUE 82-5802

X9.24 Underbody Tool Box:

X9.24.1 One (1) tool box mounted under body on right side frame rail X YES NO

X9.24.2 Tool box 18 inches high, 24 inches wide, 18 inches deep cradled by a heavy steel angle frame attached to the truck frame X YES NO

X9.24.3 Construction 14 gauge, A-60 galvaneal steel with all seams welded X YES NO

X9.24.4 Tool box has horizontal hinged fold down door X YES NO

X9.24.5 Tool box door has cable or chain to hold the door in a horizontal position X YES NO

X9.25 Load covering system electrically or air controlled X YES NO

X9.25.1 Electric motor assembly includes 12 volt direct drive motor with forward and reverse action, cab mounted control switch, resettable circuit breaker X YES NO

X9.25.2 Pivot arm assembly constructed in a two (2) piece bent arm configuration of 1 1/4 inch 14 gauge steel tubing X YES NO

X9.25.3 Bent arm extensions constructed of 1 inch 14 gauge steel tubing

X9.25.4 Rear cross constructed of 1 1/4 inch 14 gauge steel tubing

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- X9.25.5 Pivot arm rests included YES NO
- X9.25.6 Underbody spring extension spring 12 inches in length attached to base of pivot arm and of body with articulating spring mounting bracket YES NO
- X9.25.7 All steel components finished with manufacturer's recommended rust preventative system with adequate primer and paint YES NO
- X9.25.8 Steel cab protector mounted triple bend wind deflector provided YES NO
- X9.25.9 Load covering system provided with a 18 oz. black vinyl tarp to fit 14 foot 6 inch body YES NO
- X9.25.10 Load covering system supplied with all necessary hardware and delivered to the West Virginia Division of Highways as a complete and operational unit. YES NO

X9.26 Paint: Describe proposed method of painting
 X9.26.1 - X9.26.4

NO PAINT ON STAINLESS

NON STAINLESS BODY PARTS PAINTED ALUMINUM

FRONT BUMPER PAINTED BLUE

X9.27 Detail/Decorative Stripes with Logo:
 Will striping and detailing you provide comply with requirements of Section 9.27.1 through 9.27.7
 YES NO

X9.28 All body features considered as standard, but not specifically addressed:

X9.29 Does the proposed unit meet or exceed the "OSHA OF 1970" and/or subsequent changes
 YES NO

X10.0 SPECIFICATIONS - CENTRAL HYDRAULIC SYSTEM

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Is the central hydraulic system designed to operate the following:

A front mounted telescopic dump body hoist cylinder, a hydraulically driven integrated salt and abrasive spreader system requiring the simultaneous operation of two (2) hydraulic motors in two (2) different modes with conveyor reverse, a single acting snowplow lifting cylinder, a snowplow power angle system, plow balance system and an auxiliary equipment drive circuit YES NO

Are provisions made for future add on pre-wet system YES NO

Bidder: ACE TRUCK EQUIPMENT CO.

Address: 1130 NEWARK RD. ZANESVILLE, OH 43701

Telephone Number: 740.453.0551

Years company has been an authorized dealer for proposed unit: 12 years

Manufacturer, model, series, and date of manufacture of proposed central hydraulic system:

COMPONENT TECHNOLOGY MODEL SG03040008 WEST VIRGINIA SYSTEM MANUFACTURED AS

REQUIRED FOR CONTRACT.

Is descriptive literature full describing proposed central hydraulic system attached to your bid proposal? YES NO

If NO, refer to specification statement Section 6.6

When will required number of operating manuals, service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon? prior to deliver of unit or WITH EACH UNIT

Describe:

Pre-Wet System:

Does supplied spreader control contain the ability to control a closed loop pre-wet system YES NO

Does system operate using a flow meter feedback circuit YES NO

Does controller software allow for adjustability of pre wet output by the operator, represented in gallons per ton YES NO

Is information related to pre wet application rate and total flow in gallons displayed on the screen while the pre wet system is active YES NO

Does central hydraulic system have a minimum two (2) year basis bumper to bumper warranty including parts and labor? YES NO

X10.1 Pump System:

- X10.1.1 Pump: Variable volume pressure compensated load sensing axial piston type
 YES NO
- X10.1.2 Front mounting flange and main housing/case of cast iron construction YES NO
 Inlet and outlet port section of high strength ductile iron with SAE split flange porting or orb type porting
 YES NO
- X10.1.3 Is suction port and associated plumbing sized to allow for minimum inlet restriction between the pump and the suction port on the reservoir?
 YES NO
 Does installation comply with pump manufacturers allowable inlet condition specifications
 YES NO
 Is suction plumbing equal to or greater than pump inlet or suction size YES NO
- X10.1.4 Is pressure port of the SAE split flange or ORB type side mounted for direct bolt mounting of solenoid shut down valve assembly
 YES NO
- X10.1.5 Case drain and load sense signal ports of the SAE O-ring type YES NO
 Case drain line taken directly to tank without passing through the return line filter
 YES NO
- X10.1.6 Input shaft has a minimum continuous torque rating equal to 200 % of the imposed load when pump is operated at maximum engine rpm, maximum displacement and system pressure
 YES NO
 Is it minimum SAE "C" keyed YES NO
- X10.1.7 Front input shaft bearing heavy duty ball or roller type designed for high axial and radial loading
 YES NO
 Rear shaft bearing of the high speed and load sleeve type design YES NO
 Bearings fully lubricated by flooded case oil YES NO
- X10.1.8 Ramp/swashplate supported by pressure lubricated bearings of the rocker cam or saddle type for high piston load support
 YES NO
 Ramp angle positioning by means of dual servo control cylinders for rapid pump response and precise pump output control
 YES NO
- X10.1.9 Adjustable load sense and high pressure compensator control valve assembly of the full cartridge or of bolt on housing design for ease of replacement and repair YES NO

X10.1.9.1 System design and components provide flow, pressure and performance requirements 76 with a maximum operating load sense differential pressure of 300 PSI and a maximum standby pressure of 350 PSI for maximum efficiency.

If pilot control shifted valving is used, is it designed to be fully functional within this pressure range X YES NO

X10.1.9.2 High pressure compensator valve preset to limit the maximum pump output pressure to maximum required operating pressure plus load sense differential and margin pressure to prevent premature de-stroking of ramp resulting in reduced or insufficient pump output X YES NO

X10.1.10 Pump Output: Is it capable of providing hoist cylinder extension required X YES NO

Part number MAILHOT MODEL CS 135-6-3 - 15.5 gallons to fully extend but after filling 11 gallons is required to raise the cylinder:

10 GPM flow rate	<u>66</u>	seconds to raise
15 GPM flow rate	<u>44</u>	seconds to raise
20 GPM flow rate	<u>33</u>	seconds to raise
25 GPM flow rate	<u>26</u>	seconds to raise
30 GPM flow rate	<u>22</u>	seconds to raise
35 GPM flow rate	<u>19</u>	seconds to raise
40 GPM flow rate	<u>16</u>	seconds to raise

Part number MAILHOT MODEL CS 135-6-3 - 10.2 gallons to fully extend 1.2 gallons to fill and 9 gallons to extend

5 GPM flow rate	<u>87</u>	seconds to raise
10 GPM flow rate	<u>44</u>	seconds to raise
15 GPM flow rate	<u>29</u>	seconds to raise
20 GPM flow rate	<u>22</u>	seconds to raise
25 GPM flow rate	<u>17</u>	seconds to raise
30 GPM flow rate	<u>15</u>	seconds to raise
40 GPM flow rate	<u>11</u>	seconds to raise

X10.1.11 Is the make and model bid in compliance with overall quality of construction, design, and performance of the pump supplied X YES NO

X10.1.12 Pump: Manufacturer and Model: REXROTH A10V071 SERIES 31

X10.1.13 Is pump manufacturers standard product release and design X YES NO

X10.1.14 Is pump driveline assembly of the keyed shaft design utilizing a 4 bolt driveshaft flange and matching drive yoke on the pump X YES NO

- X10.1.14.1 Does driveline have a minimum continuous torque rating equal to 200% of the imposed load when pump is operating at maximum system requirements YES NO
 Manufacturer and Model: SPICER 1310 SERIES
- X10.1.14.2 Are dual journals and yokes incorporated to connect the pump shaft and engine drive flange with an angular misalignment no greater than six (6) degrees and not less than two (2) degrees YES NO
- X10.2 Pump Shutdown System:
- X10.2.1 Normally closed, energize to open, solenoid operated control valve of the cartridge and manifold design to be directly bolted to pump pressure port YES NO
 Is solenoid electrical connection of the Packard "Weatherpack" type with "SO" cable wiring YES NO
- X10.2.2 Is valve controlled by a console mounted "Master On" switch with pilot lamp for normal system operation and by a float switch located in hydraulic reservoir to automatically shut off pump pressure port flow to all down stream functions in the event of low hydraulic oil level YES NO
- X10.2.3 Pressure drop across valve 40 PSI at 40 GPM flow when in the switched open position
 Nominal valve rating 50 GPM at 3500 PSI
- X10.2.4 SAE #6 gauge port equipped with Parker Hannifin Model PD361 diagnostic coupling nipple and protective cap provided for pump output pressure testing to be installed in valve manifold and within an easily accessible mounting position YES NO
- X10.2.5 Valve designed to protect the pump from damage when the system is shut down at high pressure and flow operation YES NO
- X10.2.6 Valve manufacturer and model: COMPONENT TECHNOLOGY
- X10.2.7 Central control console mounted audio alarm and warning lamp indicating pump pressure/flow shutdown YES NO
- X10.2.8 Warning lamp press-to-test light and incorporate a switching system into the automatic shutdown assembly to simulate low oil level, shut off pump output flow and test float switch wiring and connection YES NO
- X10.2.9 A console mounted electrical override function switch provided to allow momentary operation of hydraulic functions in emergency situations YES NO
- X10.3 Directional Control Valve Assembly:
- X10.3.1 Valve stacked section type and of closed center circuit design YES NO

- X10.3.2. Each work section pressure and flow compensated with fully integrated load sense network 78
 YES NO
 Flow output is relative to spool travel with preset maximum flow rate obtained at maximum spool stroke providing feathering control of operated function YES NO
- X10.3.3 Dump body, snowplow lift, and snowplow power angle sections of the manual cable shift type
 YES NO
 Auxiliary circuit section of the electric solenoid shift type YES NO
 Both ends of each section valve spool sealed with weather resistant caps or cable entry bonnets YES NO
- X10.3.4 Valve assembly flow capacity rating and pressure drop characteristics sufficient to provide for the required pump output and circuit flow rates at the specified maximum load sense differential pressure settings YES NO
- X10.3.5 All valve ports of the SAE o-ring seal type and of sufficient size to handle required section flow rates at stated load sense differential pressure YES NO
- X10.3.6 A priority section installed to allow plow to raise in a system over demand situation YES NO
- X10.3.7 Main pressure inlet relief valve provided to reduce system pressure shock loads YES NO
 Is it preset at pressure so as not to interfere with pump pressure compensator and to prevent premature relief opening at system high demand operation YES NO
- X10.3.8 If pilot pressure reducing valve is required for solenoid section control, design meets operating requirements as set forth in Section 10.1.9.1 YES NO
 Pilot supply and tank venting internal within the valve assembly section YES NO
- X10.3.9 Load sense network high pressure relief provided and preset to limit system maximum operating pressure YES NO
 Set point provides proper pressure margin to pump pressure compensator and high pressure relief valve as to prevent premature loss of required flow rates and pressure capability YES NO
- X10.3.10 SAE #6 gauge 0port equipped with Parker Hannifin PD361 diagnostic coupling nipple with protective cap for load sense testing to be installed in an easily accessible location YES NO
- X10.3.11 Dump body control section 3-way three (3) position spring centered cylinder spool for operation of a single acting hoist cylinder YES NO

- X10.3.11.1 Full flow workport relief valve installed in power up port YES NO 79
 Set point to prevent operating pressure from exceeding hoist cylinder normal operating pressure rating YES NO
- X10.3.11.2 Adjustable flow control installed to limit downward speed rate of dump body YES NO
- X10.3.12 Snowplow lift control section is 3-way three (3) position spring centered cylinder spool with float detent for operation of a single acting lift cylinder YES NO
- X10.3.12.1 Full flow workport relief valve preset at maximum required unlock pressure installed in power down workport YES NO
 Workport relief valve installed in power up workport if maximum system pressure output setting exceeds normal operating pressure limit of plow lift cylinder YES NO
 Is a three (3) way valve provided for plow hoist circuit YES NO
- X10.3.12.2 Adjustable flow control installed to limit downward speed of snowplow YES NO
 Flow limiting control system preset for proper plow lift speed to be supplied to reduce over demand operation and to increase system efficiency YES NO
 Will flow limit be determined at time of pilot model review YES NO
- X10.3.13 Snowplow power angle control section is 4 way three (3) position spring centered motor spool for operation of worm gear driven type reversing system YES NO
- X10.3.13.1 Flow limiting control system preset for proper plow reversing speed to be supplied to reduce over demand operation and to increase system efficiency YES NO
 Will flow limit be determined at time of pilot model review YES NO
- X10.3.14 Plow Balance Valve:
 - X10.3.14.1 Is hydraulic system supplied with a plow balance valve YES NO
 - X10.3.14.2 Is valve designed to offset a specific (adjustable) plow weight when activated YES NO
 - X10.3.14.3 Does plow balance system not alter the operation of any other hydraulic function or have an adverse effect on the performance of other hydraulically operated equipment including:

Wing Plow	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
Body Hoist	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
Plow Hoist or Angle	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
Spreader functions	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO

Are all normal operations of the plow lift/lower functions maintained without additional tasks YES NO

X10.3.14.4 Will plow lift be immediate to guarantee safe operation of the vehicle YES NO

X10.3.14.5 Are solenoid valve coils used YES NO

Will they have manual override capabilities YES NO

X10.3.14.6 Does manifold valve include a pressure test point for use when checking balance pressures YES NO

X10.3.14.7 Is pressure test point capable of tapping into system at pressures of 5,000 PSI YES NO

X10.3.15 Auxiliary equipment drive circuit control section 3-way three (3) position spring centered solenoid operated motor spool YES NO

Is the circuit separate and distinct from the spreader control system YES NO

X10.3.15.1 Flow limiting control system preset to provide 22 GPM at a system load pressure of 2200 PSI. Pump is capable of supplying this flow rate with engine speed of 1173.67 RPM

X10.3.15.2 Is an inline mounted control valve supplied for this operation in place of directional control valve section YES NO

If supplied, is proper interconnections and venting of load sense network system provided YES NO

X10.3.15.3 Is pressure line 3/4" SAE 100R2 hose and manifold mounted at rear of chassis and equipped with Parker Hannifin SH6-62 quick disconnect coupler and protective metal plug YES NO

Is mating nipple SH6-63 with protective cap supplied YES NO

Will mounting location be determined at time of pilot model review YES NO

X10.3.15.4 Manufacturer and model of directional and auxiliary circuit valves:

REXROTH MP-18 SERIES

X10.3.16 Is directional control valve assembly located in a combination tank/valve enclosure assembly to protect the hydraulic tank/valve from the elements YES NO

Capacity of reservoir (tank) 40 gallon

X10.3.17 Pre-Wet Circuit:

X10.3.17.1 Is a separate circuit provided to control an add-on pre-wet system YES NOX10.3.17.2 Is hydraulic valve of the sectional type YES NO OR of the cartridge style contained in a manifold YES NOX10.3.17.3 If manifold type valve is supplied, is it attached to the main valve assembly YES NOX10.3.17.4 Is all wiring to pre-wet hydraulic circuit provided as part of the system contained in the bid YES NOX10.3.17.5 Is wiring to the control console related to the rest of the pre-wet system (low level float, flow meter connection, etc.) provided as part of the pre-wet package at the time of pre-wet system install YES NO

X10.4 Spreader Control Valve Assembly:

X10.4.1 Are spinner and conveyor solenoid flow controls of the PWM proportional solenoid type and equipped with manual overrides YES NOAre overrides manually adjustable over operating flow range in the event of electrical system failure YES NOX10.4.2 Flow control circuits are pressure compensated YES NOProvides spinner and pre-wet flow rate of 7 GPM and a conveyor flow rate of 15 GPMPressure relief valve system limit circuits to 2200 PSIX10.4.3 Load sense circuits connected to directional control valve network for proper pump control YES NODoes design prevent improper high pressure load sense signal and pressure line loading when spreader valve is not in use and when spreader quick disconnects are uncoupled YES NOX10.4.4 Is PWM solenoid control supplied by microprocessor spreader control system YES NOAre solenoids capable of 100% PWM signal without failure YES NOX10.4.5 Solenoid operated directional control valve and in-cab mounted electrical switch operates spreader conveyor reverse required for front or rear material discharge selection provided YES NOX10.4.6 Is electrical switching and indicator light for spreader clogged indication provided YES NOX10.4.7 Manufacturer and model of valve: REXROTH MP18 SERIES

X10.5 Spreader Control System:

- X10.5.1 Dual flow, ground speed oriented spreader control system of the closed loop microprocessor based type with nonvolatile control memory X YES NO
- X10.5.2 Automatic calibration and flexibility of programming X YES NO
- X10.5.3 System is capable of operation in ground speed oriented closed loop conveyor feed back, open loop, manual set, blast and unload modes and fully functional in both front and rear material discharge selection X YES NO
- X10.5.4 Automatic switchover with display indication from closed loop to open loop operation in the event of loss of feed rate sensor signal is provided X YES NO
- X10.5.5 Control console digital readouts capable of displaying actual application rate, vehicle ground speed, distance of spread route driven and total quantity of material spread X YES NO
- X10.5.6 Programming and output cable connection for material and trip information printer and program uploading is provided X YES NO
- X10.5.7 Control unit capable of accumulating display information up to 999,999 miles and 999,999 tons of discharged material X YES NO
- X10.5.8 Console programming capable of selection, calibration and display of four (4) separate spread materials with independent application rates of each material capable of being set to fixed rates or to rate increments of a preset maximum application rate X YES NO
- X10.5.9 A variable digital access code lockout for application rate selection and for system operating parameters is provided X YES NO
- Is it a key switch X YES NO
- X10.5.10 Backlighted switches and LCD screen utilized for on-board programming and for display readout and application rate selection X YES NO
- X10.5.11 Is material spread width selectable by no less than 10 position switch with minimum and maximum spinner speed totally programmable through entire flow range X YES NO
- Is spinner speed capable of linking to ground speed for on-off control X YES NO
- X10.5.12 Does display enunciate error message and sound audio alarm when microprocessor system detects any loss of control or accuracy X YES NO
- X10.5.13 Will system be fully functional at time of delivery X YES NO
- X10.5.14 Is truck speed sensor compatible with type of speedometer drive system supplied on chassis X YES NO
- X10.5.15 Is a built-in ground speed simulator provided either internal to the control or located in the control console X YES NO

X10.5.16 Are all components required for proper installation and operation of control system onto truck and spreader units supplied YES NO

X10.5.17 Manufacturer and model of proposed control system:

COMPONENT TECHNOLOGY ^{SG51} SG53 W/ GL400 CONTROL

X10.6 Central Control Console:

X10.6.1 Mounted between seats within easy access of the driver YES NO

X10.6.1.1 Warning light (bed raised) control console mounted YES NO

X10.6.2 Will all wiring, valve control cables and electrical harness entry into cab and console sealed with grommets YES NO

X10.6.3 Are remote control valve levers console mounted YES NO

Are all levers clearly marked as to function and operation YES NO

X10.6.3.1 Remote control levers to operate push-pull type cables with .250" diameter stainless steel rod ends YES NO

X10.6.3.2 Is inner cable member 18-8 stainless steel armor wrapped construction with a low resistance nylon liner and polyethylene covered tempered steel wire conduit YES NO

X10.6.3.3 Is cable to valve connection of the weather resistant bonneted type YES NO

X10.6.3.4 Hoist control lever OSHA compliant (hoist interlock) YES NO

X10.6.4 Are central console or dash mounted rocker switches with indicator lamps provided for strobe lights, spreader light and plow lights isolated from all hydraulic system control circuits YES NO

X10.6.4.1 Are interconnections and cables installed and ready for operation YES NO

X10.6.4.2 Is hydraulic system automatic shutdown system and control switching relay controlled YES NO

X10.6.4.3 Relay(s) mounted within the cab YES NO

X10.6.4.4 An access plate to internal wiring is provided YES NO

X10.7 Hydraulic Reservoir:

X10.7.1 Tank/valve enclosure flex mounted to the chassis frame rail YES NO

X10.7.2 Tank constructed of 7 gauge 304 stainless steel YES NO

X10.7.3 Tank equipped with a combination oil level sight glass and thermometer YES NO

- X10.7.4 Tank equipped with a pressurized ten (10) micron filter/breather cap with removable 500 micron Strainer X YES NO
- X10.7.5 Is an internal steel baffle provided within the tank X YES NO
- X10.7.6 Tank stenciled with minimum of 1 1/2" high "Hydraulic Oil" X YES NO
- X10.7.7 Tank level switch connection "SO" type wiring and flange mounted within the tank/valve enclosure to protect it from the elements X YES NO
- X10.7.8 Pump supply suction port 2 inches NPT and system report port 1.25 inches NPT
- X10.8 Filtration:
- X10.8.1 Manufacturers standard filtration to adequately protect the hydraulic system from damage X YES NO
- X10.8.2 Return line filter isolated from reservoir by a full flow non-restrictive type quarter turn brass ball valve if filter not installed in reservoir X YES NO
- X10.8.3 Each filter equipped with a differential pressure switch to indicate filter clogged condition by means of a console mounted indicator lamp X YES NO
- X10.8.4 One (1) extra replacement filter for each assembly is provided for each truck X YES NO
- X10.8.5 Filter assemblies positioned as close to reservoir as possible and in an easily accessible service location X YES NO
- X10.9 Hoses and Fittings:
- X10.9.1 Each hose assembly (hose with hose ends) except for suction hose is fitted with JIC swivel connections on ends where connection to system component is made X YES NO
- X10.9.2 All pressure line hoses meet or exceed SAE Specification 100R2 and are equal to Gates high pressure hose, type C2AT for sizes up to and including 1 inch ID X YES NO
- X10.9.3 Suction hose 2 inch nominal ID and meet SAE Specification 100R4, braided fiber, spiral wire reinforced, rubber covered hose with replaceable bolt-on type fittings X YES NO
- X10.9.4 All hydraulic hoses fully cleaned on interior, installed, and ready for operation X YES NO
- X10.9.5 Are grommets used when routing hoses through steel bracketing or frame members X YES NO
- X10.9.6 Are Snap-Tite quick disconnects (manifold mounted) supplied for forward and rear spinner 1/2 inch pressure and return lines X YES NO
- Is iron or galvanized iron pipe for fittings and connectors used YES X NO
- X10.9.7 Are all fittings and connectors steel type designed for high pressure hydraulic system use X YES NO

X10.9.8 Pipe thread ported components and connectors are only used when the specific component is not available with SAE or JIC porting YES NO

X10.9.9 Are all pipe thread connectors used coated with liquid Teflon pipe sealer prior to assembly YES NO

X10.9.10 Hoses that run to the front of truck chassis for snowplow functions are manifold mounted behind the front bumper with sufficient access for pump service and snowplow hitch installation YES NO

X10.9.11 Are snowplow lines equipped with complete 1/2 inch "VH" series Snap-tite quick disconnects (coupler and nipple supplied) and metal caps and plugs YES NO

X10.10 Items not specifically stated but are necessary for proper system installation and operation are supplied and comply with recommended hydraulic industry standards:

X10.11 Will initial servicing and pre-testing of hydraulic system be included for:

X10.11.1 Initial fill of reservoir with a high grade 32 AW hydraulic fluid to approximately 40 gallon level, marked on sight glass YES NO

X10.11.2 Start-up and initial run of hydraulic system, checking for leaks, excessive heat, system efficiency YES NO

Will you replace any defective component YES NO

Will you cover any defects discovered at time of plow installation if equipment is not available at time of initial test of plow circuits YES NO

X10.11.3 Refill reservoir to the 40 gallon operating level YES NO

X10.12 If any hydraulic lines are located within 10 inches of exhaust system are they metal lines and insulated YES NO

X10.13 Are detailed component specifications, product literature, system component layout drawing with bill of materials and full functional hydraulic system schematics in accordance with JIC and ANSI-Y32 format attached with your bid YES NO

X10.14 If successful vendor, will you provide WVDOH with a complete list of all filters required for normal maintenance on proposed unit YES NO

X10.15 Explain your training sessions with each purchase order covering the operation, maintenance, trouble shooting and calibration/programming of the hydraulic system and spreader controls and where will they be held:

THREE ONE DAY TRAINING SESSIONS PER P.O.



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
707EC021

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
JOHN JOHNSTON
304-558-2402

VENDOR
 *111140344 304-254-7827
HERITAGE EQUIPMENT INC
322 DRY HILL ROAD
BECKLEY WV 25801

SHIP TO
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
ROUTE 33
BRUSHY FORK ROAD
BUCKHANNON, WV
26201 304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
07/12/2007				

BID OPENING DATE: **07/25/2007** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
BID OPENING DATE AND TIME CHANGED						
FROM: 07-25-07 AT 1:30 P.M.						
TO: POSTPONE UNTIL FURTHER NOTICE						
NO OTHER CHANGES						
0001	1	EA		065-30		
64,000 GVW CAB & CHASSIS, STAINLESS STEEL DUMP BODY						
***** THIS IS THE END OF RFQ 707EC021 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mark</i>	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

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RFO NUMBER
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 304-558-2402

VENDOR

*111140344 304-254-7827
 HERITAGE EQUIPMENT INC
 322 DRY HILL ROAD
 BECKLEY WV 25801

SHIP TO

DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/20/2007				
BID OPENING DATE: 10/17/2007		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 2		
				CHANGES TO THE SPECIFICATIONS PER THE ATTACHED.		
				BID OPENING DATE AND TIME CHANGED		
				FROM: POSTPONE UNTIL FURTHER NOTICE		
				TO: 10/17/07 AT 1:30 P.M.		
				NO OTHER CHANGES.		
0001	1	EA		065-30		
				64,000 GVW CAB & CHASSIS, STAINLESS STEEL DUMP BODY		
***** THIS IS THE END OF RFQ 707EC021 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *Mark Hanna* TELEPHONE 304-254-7827 DATE 10-17-2007

TITLE Fleet Sales FEIN 550759079 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

ADDENDUM #2
707EC021

OPEN END CONTRACT

64,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND
PISTON PUMP HYDRAULIC SYSTEM

CHANGES TO BIDDER'S EVALUATION REPORT:

FROM:

X4.2.2 Delivery date of balance of completed units: 240 calendar days after date of purchase agreement

TO:

X4.2.1 Guaranteed delivery of balance of completed units in the following quantities:

1-25	<u>240</u>	calendar days after receipt of purchase agreement by successful vendor
26-50	<u>240</u>	calendar days after receipt of purchase agreement by successful vendor
51 and over	<u>240</u>	calendar days after receipt of purchase agreement by successful vendor

FROM:

X4.2.2 Delivery date of completed representative unit ~~150~~ calendars after date of purchase agreement

TO:

X4.2.2 Delivery date of completed pilot model 150 calendar days after receipt of purchase agreement by successful vendor

FROM:

X5.1 Prices for quantities of 1-25 _____ per unit
 26-50 _____ per unit
 51 and over _____ per unit

TO:

X5.1 Prices for quantities of complete unit including minimum 2 year bumper to bumper parts and labor warranty:

1-25 \$ 135,079.⁰⁰ per unit
 26-50 \$ 135,079.⁰⁰ per unit
 51 and over \$ 135,079.⁰⁰ per unit

If a 3 year bumper to bumper basic parts and labor warranty excluding normal wear items

and misuse available, please state price 3 yr./50k miles \$ 1049.⁰⁰ per unit
 3 yr./100k miles \$ 1362.⁰⁰ per unit.

ADD AS 4th PARAGRAPH:

X6.5 WARRANTY AND SERVICE POLICY

Will a minimum 2 year bumper to bumper basic parts and labor warranty excluding normal wear items and misuse be provided YES ___ NO

Is a 3 year bumper to bumper parts and labor warranty excluding normal wear items and misuse available YES ___ NO

Describe: 3 year / 100,000 miles Basic Vehicle Warranty

Extension ADD \$ 1362.⁰⁰ see attached coverage
3 year / 150,000 miles Basic Vehicle Warranty extension Add \$ 1049.⁰⁰

NO CHANGE

X8.3 Wheelbase: 209 inches set forward design for snowplow application for various plows YES ___ NO

NO CHANGE

X8.7.3 Is clutch dual plate ceramic clutch YES ___ NO

Size: 15 1/2 inch Kwik adjust (manual feature) YES ___ NO

Manufacturer and model: Eaton Fuller with 7 spring damper YES ___ NO
ceramic 2-plate

NO CHANGE

X8.8.6 Radiator and heater hose manufacturer: Gates Blue Stripe

NO CHANGE

X8.10.6.1 Truck vendor will provide 4 feet of wiring bundled at the end of the frame for body vendor hook up of tail lights and etc. in the dump bed body YES ___ NO

FROM:

X8.18.3.1 Front Wheels: Size _____
10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc ___ YES ___ NO
Rated at ___ lbs. at a maximum inflation pressure of ___ PSIG
Manufacturer and Model: _____
With 0.500 inch thick disc, non standard off set with steel hubs ___ YES ___ NO
Powder coated with color similar to gray ___ YES ___ NO

TO:

X8.18.3.1 Front Wheels: Size 22.5 x 9.00
10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc YES ___ NO
Rated at 10,000 lbs. at a maximum inflation pressure of 130 PSIG
Manufacturer and model: Accuride 29039
With 0.500 inch thick disc, non standard off set with steel hubs YES ___ NO
Powder coated YES ___ NO Gray top coat YES ___ NO

FROM:

X8.18.4.1

Rear Wheels: Size _____
10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc YES NO
Rated at _____ lbs. at a maximum inflation pressure of _____ PSIG
Manufacturer and Model: _____
With 0.500 inch thick disc, non standard off set with steel hubs YES NO
Powder coated with color similar to gray YES NO

TO:

X8.18.4.1

Rear Wheels: Size 8.25" x 22.5"
10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc
 YES NO
Rated at 8,000 lbs. at a maximum inflation pressure of 120 PSIG
Manufacturer and model: Accuride 29169
With 0.472 inch thick disc YES NO
Powder coated YES NO Gray top coat YES NO

FROM:

X8.25.1

Will a preventive maintenance and operator's training seminar be provided
 YES NO

TO:

X8.25.1

Will a preventive maintenance and operator's training seminar be provided
 YES NO

Manuals _____ (OR) CD

FROM:

X10.3.12

Snowplow lift control section is 3 way three (3) position spring centered cylinder spool with float detent for operation of a single acting lift cylinder YES NO

TO:

X10.3.12

Snowplow lift control section is 4 way three (3) position spring centered cylinder spool with float detent for operation of a single acting lift cylinder
 YES NO

FROM:

X10.3.14.5 Are solenoid valve coils used YES__NO
Will they have manual override capabilities __ YES __ NO

TO:

X10.3.14.5 Are solenoid valve coils used X YES NO

Will they have manual override capabilities if needed for continued use when
coils fail X YES NO

PURCHASING CONTINUATION SHEET

Buyer:	Page	Req. or P.O. No.:
JJ-33	7	707EC021
Spending Unit:		
Division of Highways		

Vendor:

Requisition No.: 707EC021

ADDENDUM ACKNOWLEDGEMENT

I hereby acknowledge receipt of the following checked addendum(s) and have made the necessary revisions to my proposal, plans and/or specifications, etc.

Addendum No.'s:

- No. 1 ✓
- No. 2 ✓
- No. 3
- No. 4
- No. 5

I understand that failure to confirm the receipt of the addendum(s) may be cause for rejection of bids.

Signature

Heritage Equipment, Inc.
Company

10-17-2007
Date



1130 Newark Road

P.O. Box 2605

Zanesville, Ohio 43702-2605

740 453-0551

PRICE QUOTATION

QUOTE _____ DATE 10.16.2007
ORDER _____ DATE

PURCHASE ORDER _____

SALESMAN DAVID

COMPANY STATE OF WEST VIRGINIA
ADDRESS

ATTN:

END USER BID #707EC021

PHONE
FAX

CHASSIS INFORMATION	MAKE	MODEL	W/B	CA/CT
	TRANS.	MODEL	TIRES	PAINT

1- HENDERSON MUNIBODY
1- COMPONENT TECHNOLOGY HYDRAULIC SYSTEM
PER THE COMPLETED COMPLIANCE SHEETS
DELIVERED TO BUCKHANNON, WV

NOTE: TRUCK FRAME MUST BE FREE OF OBSTRUCTIONS INSIDE AND OUTSIDE
LEFT FRAME RAILS 23" - 38" FROM BACK OF CAB

PRICE PER UNIT: \$51,912.00

PRICE
FED. TAX
SALES TAX
SUB TOTAL
TRADE-IN
NET PRICE

TRADE DESCRIPTION

This quotation becomes an order when signed here: Name _____ Title _____

This order is not binding until approved by a company official. All quotations and delivery promises made and orders accepted subject to delays caused by fire, accident, strikes or other causes beyond our control. Deliveries delayed by any of the above conditions shall not constitute cause for cancellation of this order. Prices subject to change without notice.

10.16.07 STATE OF WV #707EC021 (DAVID)

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

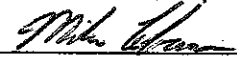
EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Heritage Equipment Inc.

Authorized Signature:  Date: 10-17-2007

AGREEMENT ADDENDUM

In the event of conflict between this addendum and the agreement, this addendum shall control:

1. **ARBITRATION** - Any references to arbitration contained in the agreement are hereby deleted. Disputes arising out of the agreement shall be presented to the West Virginia Court of Claims.
2. **HOLD HARMLESS** - Any clause requiring the Agency to indemnify or hold harmless any party is hereby deleted in its entirety.
3. **GOVERNING LAW** - The agreement shall be governed by the laws of the State of West Virginia. This provision replaces any references to any other State's governing law.
4. **TAXES** - Provisions in the agreement requiring the Agency to pay taxes are deleted. As a State entity, the Agency is exempt from Federal, State, and local taxes and will not pay taxes for any Vendor including individuals, nor will the Agency file any tax returns or reports on behalf of Vendor or any other party.
5. **PAYMENT** - Any references to prepayment are deleted. Payment will be in arrears.
6. **INTEREST** - Should the agreement include a provision for interest on late payments, the Agency agrees to pay the maximum legal rate under West Virginia law. All other references to interest or late charges are deleted.
7. **RECOUPMENT** - Any language in the agreement waiving the Agency's right to set-off, counterclaim, recoupment, or other defense is hereby deleted.
8. **FISCAL YEAR FUNDING** - Service performed under the agreement may be continued in succeeding fiscal years for the term of the agreement, contingent upon funds being appropriated by the Legislature or otherwise being available for this service. In the event funds are not appropriated or otherwise available for this service, the agreement shall terminate without penalty on June 30. After that date, the agreement becomes of no effect and is null and void. However, the Agency agrees to use its best efforts to have the amounts contemplated under the agreement included in its budget. Non-appropriation or non-funding shall not be considered an event of default.
9. **STATUTE OF LIMITATION** - Any clauses limiting the time in which the Agency may bring suit against the Vendor, lessor, individual, or any other party are deleted.
10. **SIMILAR SERVICES** - Any provisions limiting the Agency's right to obtain similar services or equipment in the event of default or non-funding during the term of the agreement are hereby deleted.
11. **ATTORNEY FEES** - The Agency recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction. Any other provision is invalid and considered null and void.
12. **ASSIGNMENT** - Notwithstanding any clause to the contrary, the Agency reserves the right to assign the agreement to another State of West Virginia agency, board or commission upon thirty (30) days written notice to the Vendor and Vendor shall obtain the written consent of Agency prior to assigning the agreement.
13. **LIMITATION OF LIABILITY** - The Agency, as a State entity, cannot agree to assume the potential liability of a Vendor. Accordingly, any provision limiting the Vendor's liability for direct damages or limiting the Vendor's liability under a warranty to a certain dollar amount or to the amount of the agreement is hereby deleted. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.
14. **RIGHT TO TERMINATE** - Agency shall have the right to terminate the agreement upon thirty (30) days written notice to Vendor.
15. **TERMINATION CHARGES** - Any provision requiring the Agency to pay a fixed amount or liquidated damages upon termination of the agreement is hereby deleted. The Agency may only agree to reimburse a Vendor for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the Agency prior to the end of any current agreement term.
16. **RENEWAL** - Any reference to automatic renewal is hereby deleted. The agreement may be renewed only upon mutual written agreement of the parties.
17. **INSURANCE** - Any provision requiring the Agency to insure equipment or property of any kind and name the Vendor as beneficiary or as an additional insured is hereby deleted.
18. **RIGHT TO NOTICE** - Any provision for repossession of equipment without notice is hereby deleted. However, the Agency does recognize a right of repossession with notice.
19. **ACCELERATION** - Any reference to acceleration of payments in the event of default or non-funding is hereby deleted.
20. **AMENDMENTS** - All amendments, modifications, alterations or changes to the agreement shall be in writing and signed by both parties. No amendment, modification, alteration or change may be made to this addendum without the express written approval of the Purchasing Division and the Attorney General.

ACCEPTED BY:
STATE OF WEST VIRGINIA

Spending Unit: _____

Signed: _____

Title: _____

Date: _____

VENDOR

Company Name: Heritage Equipment, Inc.

Signed: *Mr. [Signature]*

Title: Fleet Sales

Date: 10-17-2007



Heritage Equipment, Inc.



**322 DRY HILL ROAD
BECKLEY WV 25801
PHONE 304 254 7827
FAX 304 254 9007**

Optional Equipment for WVDOH 707EC021
10/17/2007

Henderson Muni Body and Component Tech Hydraulics from Benson ILO ACE Bid	ADD \$ 1,145.00each
Viking Body with Component Tech Hydraulics ILO ACE Bid	ADD \$ 9,088.00 each
Optional PREMIUM Engine Brake enhancement	ADD \$750.00 each

X5.0 AWARD CRITERIA;

X5.1 Prices for quantities of

1-25	<u>53.057</u>	per unit
26-50	<u>53.057</u>	per unit
51 and over	<u>53.057</u>	per unit

X6.0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

Is descriptive literature, fully describing proposed unit attached to your bid? YES NO

If not, why? _____

X6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units? YES NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit? YES NO

West Virginia RFQ#7072C021

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X9.0 SPECIFICATIONS - 304 STAINLESS STEEL COMBINATION DUMP/SPREADER BODY

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.

Bidder: Benson International

Address: Cadiz Ky

Telephone Number: 270-522-1008 Cell 304-483-7093

Years company has been an authorized dealer for proposed unit: 1 years

Manufacturer, model, series, and date of manufacture of proposed combination dump/spreader body:

Henderson MUNI - WV 07

Is descriptive literature full describing proposed combination dump/spreader body attached to your bid proposal? x YES NO

If NO, refer to specification statement Section 6.6

When will required number of operating manuals, service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon? prior to deliver of unit or with each unit

Does the combination dump/spreader body have a minimum two (2) year basic bumper to bumper Warranty including parts and labor? x YES NO

X9.1 Body capacity: 12.7 cubic yards water level

X9.2 Sideboard pockets and tailgate height provides additional capacities of 2 to 5 cubic yards

X9.3 Front body bulkhead: 3/16" inch 304 stainless steel

X9.4 Does cab shield have sufficient clearance to ensure shield will not hit exhaust when dumping on uneven Terrain x YES NO

X9.5 Two (2) front truck frame mounted tow hooks or eyes accessible through bumper YES NO
dealer provided

X9.6 Dimensions:

- X9.6.1 Inside length of body: 174 inches
- X9.6.2 Inside width of body: 88 inches wide to maximize capacity and lower the center of gravity
- X9.6.3 Outside width of body: 95 at the integral fenders
- X9.6.4 Body spacing from cab dealer inch
- X9.6.5 Basic side height: 45 inches (measure from the floor to top rail)
- X9.6.6 Tailgate height: 53 inches (measure from the floor to top rail)
- X9.6.7 Body overhang: 10-18 inches (measure from center of hinge pin)
- X9.6.8 Cab protector: 22 inches x 94 inches with adequate clearance for cab mounted air horns

X9.7 Cab protector sloped rearward for drainage purposes YES NO

X9.8 Construction of the body sides, front, head, and tailgate:

Steel type: 304 stainless steel

X9.8.1 Floor: 1/4 inch thickness 304 stainless no OR abrasion resistant AR400 yes

X9.8.2 Sides: 3/16 inch thickness

X9.8.3 Tailgate plate: 3/16 inch thickness

X9.8.4 Top rail: 3/16 inch thickness

X9.8.5 Cab protector: 10 gauge

X9.8.6 Longitudinal: 10 inch/ 7 gauge 304 stainless steel formed inner/
10 gauge 304 stainless steel formed with internal stainless steel gussets every
30 inches

X9.8.7 For future potential pre-wet application, will the combination body be capable of accepting frame mounted approximately 85 gallon poly liquid tanks YES NO

Is the body designed to allow maximum protection to the tanks YES NO

X9.9 Is all the welding inside the body continuous and not skip welded YES NO

Are all rails and posts continuous welded YES NO

- X9.10 Are the rear corner posts full length, one (1) piece construction YES NO 67
- X9.10.1 Will a rear bolt on spreader apron be provided unless integrated into the rear of the bed YES NO
- X9.11 Cab protector sides, formed with gussets, extending forward 22 inches
Clearance above highest point of cab is 3 inches
- X9.12 Is body a unibody design - no crossmembers YES NO
- X9.12.1 Does the body have one (1) piece sides and floor which incorporates a sloping floor to side radius to adequately feed material to conveyor chain YES NO
- X9.12.2 The sides of the body slope to the conveyor to facilitate self cleaning of body without raising YES NO
- X9.13 The boxed top rail slopes inward to shed debris YES NO
- X9.14 Pull length 304 stainless steel integral rear fenders are continuously welded and positioned over wheels of the truck chassis YES NO
- X9.15 Is there an integrated center conveyor providing the ability of the body to convey granular materials with the body down YES NO
- X9.15.1 Does the conveyor have 12 inches or less truck frame to body floor height for lower center of gravity and lower mounting height YES NO
- X9.15.1.1 Will wood products be used between truck frame and bed YES NO
N/A - conveyor longshills sit directly on truck frame
- X9.15.2 1/4 inch 304 stainless steel no conveyor floor OR abrasion resistant steel (AR400) yes
- X9.15.3 2 inch diameter front and rear shafts with eight (8) tooth sprockets YES NO
- X9.15.4 Drive sprockets are double keyed to shaft YES NO
- X9.15.5 Conveyor width: 25 inches
- X9.15.6 Is conveyor reversible YES NO
- X9.15.7 Is conveyor driven with 25:1 planetary gearbox drives on both the front and rear shafts YES NO
Hydraulic motors 5.0 CIR
- X9.15.8 Does one (1) motor have an integral conveyor speed sensor YES NO
Is conveyor chain D667K pintle type (24,500 lb. tensile/strand) YES NO
With 3/8 inch x 1 1/2 inch conveyor crossbars welded to every link
- X9.15.9 Is there a 10 gauge 304 stainless steel bolt in pan under the conveyor to keep material off chassis frame YES NO

X9.16 Does the body have the capability to convey to the front or the rear with a material spinner for distributing material YES NO

X9.16.1 For front spreading, is there a front feedgate integrated into the head sheet of the body no less than 8 inches x 24 inches with infinite adjustment positions YES NO

X9.16.2 A 304 stainless steel front spinner chute mounted between chassis frame rails and with the body down be completely enclosed to prevent material from dropping on chassis drive shaft YES NO

X9.16.3 For rear spreading, a 7 gauge 304 stainless steel 10-12 inch x 24-26 inch Rear feedgate in the body tailgate YES NO

X9.16.4 Is rear feedgate lever operated or screw adjustable The feedgate capable of being positively locked into position YES NO

X9.16.5 Is the front spinner bracket and chute mounted to the truck chassis frame and for rear spreading capability the rear spinner chute and brackets installed by successful vendor YES NO

X9.16.6 Is the spinner assembly universal and may be used at front or rear YES NO

X9.16.7 Is the spinner assembly adjustable left to right, and up and down to assure accurate placement of material on spinner disc to facilitate control of spread pattern YES NO

X9.16.8 Does 10 gauge 20 inch diameter spinner disc have replaceable machined hub YES NO

X9.16.9 Is spinner disc vanes 409 no or 304 yes stainless steel

X9.16.10 If spinner hydraulic motor is mounted on top of spinner disc, the motor is enclosed in a removable material shedding protective cover YES NO

X9.17 Hydraulic Hoist:

X9.17.1 Is it a trunnion mount or top lift telescopic hoist

X9.17.2 Is telescopic hoist no less than N.T.E.A. Class 70 YES NO

X9.17.3 Is single hoist cylinder trunnion mount or top lift

X9.17.4 Does hoist cylinder have three (3) stages with 135 inches of stroke with a six (6) inch diameter first stage YES NO

Manufacturer and model: Mailhot C135-6-3

X9.17.5 Does the cylinder have wear and corrosion resistant nitrided cylinder tubes YES NO

- X9.17.6 Cylinder warranty: 2 years
- X9.17.7 Does a five (5) degree oscillating cylinder collar protect the cylinder against side stress, if trunnion mount cylinder provided YES x NO
not applicable
- X9.17.8 Does the body have 6 inch x 8 inch x 1/2 inch structural angle rear hinge assembly installed in the truck chassis frame x YES NO
- X9.17.9 Does the rear hinge assembly have cold roll steel hinge pins connecting to 2 1/2 inch hinge blocks with grease zerks x YES NO
- X9.18 Are the following features included:
- X9.18.1 Warning light (bed raised) console mounted X YES NO
- X9.18.2 Hydraulic oil level reading X YES NO
- X9.18.3 Safety decals as required X YES NO
- X9.18.4 304 stainless steel mud guards, 10 gauge x 24 inches x 30 inches permanently attached in front of rear wheels x YES NO
- Will body vendor align exhaust stack for body clearance X YES NO
- X9.18.5 304 stainless steel shovel bracket X YES NO
- X9.18.6 304 stainless steel gussets (board pockets) for 4 inch x 6 inch lumber (rough) located at front and rear and mid-rail x YES NO
- 4 inch x 6 inch (rough) oak sideboards supplied and bolted through the gussets X YES NO
- Painted aluminum to match the body X YES NO
- X9.18.7 Does the unit have air operated tailgate with dual brake chamber air tailgate latches (one on each side) x YES NO
- Pivot shafts included stainless steel bushings to eliminate seizing x YES NO
- X9.18.8 1 1/2 inch 304 stainless steel grip strut walk rail installed on both sides of the body x YES NO
- X9.18.9 OSHA approved backup alarm, electronic ambient, adjusts to background noise, 112 dba shock mounted at the rear X YES NO
- X9.18.10 OSHA approved body support, both sides x YES NO
- X9.18.11 Unit equipped with 49,000 lb. capacity pintle hook centered between rear frame rails X YES NO

Manufacturer and Model: Holland PH760

Height from ground level to center line of pintle "eye": 32 inches

- X9.18.12 Air deflector-hood mounted, blue or smoke YES NO 70
- Deflector manufacturer's standard width for truck mode YES NO
Width: _____
- Access to front end hood tilt handle YES NO
- Extra handle YES NO

X9.19 Lighting: Weather/shock resistant lights LED type with average amp draw between .045 - .72
 YES NO

Manufacturer and Model: Truck Lite Model 10

All connections have sure snap plug assemblies and epoxy sealed electronics to protect against shock and vibration
 YES NO

X9.19.1 All marker lights 2 1/2 inch diameter flush mount sealed beam lights with integral reflector mounted in rubber base Truck Lite TL10250R YES NO

X9.19.2 All ground wires attached with plated steel fasteners YES NO

X9.19.3 Rear lights shock mounted, recessed oval stop, tail, turn, and recessed oval back up lights mounted in back post Truck Lite TL60250R YES NO

Strobe lights marked and switched from dash board location YES NO

Manufacturer and Part #: TRUCK Lite 6000 Series

X9.19.4 Center rear I.D. lights three (3) located in truck chassis YES NO

X9.19.5 Two (2) amber oval LED strobe lights mounted at the front corners of the cab protector, and two (2) amber oval LED strobe lights mounted at each outside corner of the cab protector YES NO

Manufacturer and Part # of Both Locations: Truck Lite 6000 Series

Strobe lights marked and switched at dash board location YES NO

X9.19.6 Auxiliary headlights for snowplowing application shock mounted on fender of unit YES NO

Manufacturer and Part #: TRUCK Lite 80888

X9.19.7 Two (2) oval amber LED strobe lights mounted at top of rear corner posts right and left sides and switched in combination with cab protector strobe YES NO

Manufacturer and Model: Truck Lite 6000 Series

X9.19.8 Two (2) front frame mounted tow hooks dealer provided YES NO

X9.19.9 Lighted license plate bracket YES NO

X9.20 Are the following at the front or rear both sides of the body:

- X9.20.1 304 stainless steel fold down ladder that locks into position when either in the down or up position YES NO
- X9.20.2 Two (2) 304 stainless grab handles YES NO
- X9.21 Tailgate (304 stainless steel):
- X9.21.1 Tailgate hinged at top, flame cut hardware, pork chop type off-set hardware to achieve maximum opening of tailgate, but has provision for pivoting at the bottom YES NO
- X9.21.2 Flush mount, 1/2 inch flame cut 304 stainless steel tailgate pivots YES NO
- X9.21.3 Heavy duty offset hinge plates, one (1) inch flame cut 304 stainless steel YES NO
- X9.21.4 3/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless steel latch plates YES NO
- X9.21.5 Full perimeter 304 stainless steel boxing with all horizontal edges sloped outward YES NO
- X9.21.6 Two (2) 10 gauge 304 stainless steel sloped horizontal braces that are flush with perimeter Boxing YES NO
- X9.21.7 7 gauge 304 stainless steel 10-12 inch x 24- 26 inch rear feedgate YES NO
- X9.21.8 Cold roll steel upper pins with grease zerks YES NO
- X9.21.9 Top hinge channel has removable, chain tethered keeper pins YES NO
- X9.21.10 Latching action at the bottom of gate operable by the truck driver without leaving the truck cab YES NO
- X9.21.11 Gate is self aligning YES NO
- X9.21.12 Tailgate lower latch pins 304 stainless steel 1 1/4 inch diameter YES NO
- X9.21.13 Body integrated or bolt on 304 stainless steel 15 inch spreader apron YES NO
- X9.22 Design and strength characteristic of the entire body such that the unit structural members and the hoisting system will not suffer any deformation, damage, or structural failure resulting from raising a distributed full payload YES NO

9.23 Bumper:

- X9.23.1 Bumper formed out of 1/4 inch roll steel YES NO

Weighs 10.20 lbs. per square foot

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- X9.23.2 Bumper face covers all of truck frame (12 inches) with two (2) flanges of 2.25 inches top and bottom YES NO
- X9.23.3 Overall width of bumper: 94 inches
- X9.23.4 Bumper straight across front from centerline of truck chassis 21 inches each side of Centerline, making bumper straight 42 inches long in center with ends swept back 30 degrees and 27 inches each side.
- X9.23.5 Bumper has two (2) access holes for utilization of tow hooks YES NO
- X9.23.6 Upper and lower flanges cut and welded solid at point where bumper is bent and ground off smooth YES NO
- X9.23.7 Bumper mounted by two (2) mounting angles bolted to front of truck frame with two (2) 5/8 inch bolts each side YES NO
- X9.23.8 Mount angle 1/4 inch x 3 inches x 8 long with four (4) 5/8 inch holes YES NO
- X9.23.9 Paint on front bumper: Martin Senour Dark Blue #82-5802
- X9.24 Underbody Tool Box:
- X9.24.1 One (1) tool box mounted under body on right side frame rail YES NO
- X9.24.2 Tool box 18 inches high, 24 inches wide, 18 inches deep cradled by a heavy steel angle frame attached to the truck frame YES NO
- X9.24.3 Construction 14 gauge, Alu galvanneal steel with all seams welded YES NO
- X9.24.4 Tool box has horizontal hinged fold down door YES NO
- X9.24.5 Tool box door has cable or chain to hold the door in a horizontal position YES NO
- X9.25 Load covering system electrically or air controlled YES NO
- X9.25.1 Electric motor assembly includes 12 volt direct drive motor with forward and reverse action, cab mounted control switch, resettable circuit breaker YES NO
- X9.25.2 Pivot arm assembly constructed in a two (2) piece bent arm configuration of 1 1/4 inch 14 gauge steel tubing YES NO
- X9.25.3 Bent arm extensions constructed of 1 inch 14 gauge steel tubing
- X9.25.4 Rear cross constructed of 1 1/4 inch 14 gauge steel tubing

- X9.25.5 Pivot arm rests included YES NO
- X9.25.6 Underbody spring extension spring 12 inches in length attached to base of pivot arm and of body with articulating spring mounting bracket YES NO
- X9.25.7 All steel components finished with manufacturer's recommended rust preventative system with adequate primer and paint YES NO
- X9.25.8 Steel cab protector mounted triple bend wind deflector provided YES NO
- X9.25.9 Load covering system provided with a 18 oz. black vinyl tarp to fit 14 foot 6 inch body YES NO
- X9.25.10 Load covering system supplied with all necessary hardware and delivered to the West Virginia Division of Highways as a complete and operational unit. YES NO

X9.26 Paint: Describe proposed method of painting
 X9.26.1 - X9.26.4

No Paint on any Stainless Steel
Paint Bumper Martin Saddur Dark Blue 85-5802

X9.27 Detail/Decorative Stripes with Logo:
 Will striping and detailing you provide comply with requirements of Section 9.27.1 through 9.27.7
 YES NO

X9.28 All body features considered as standard, but not specifically addressed:

X9.29 Does the proposed unit meet or exceed the "OSHA OF 1970" and/or subsequent changes
 YES NO

X10.0 SPECIFICATIONS - CENTRAL HYDRAULIC SYSTEM

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Is the central hydraulic system designed to operate the following:

A front mounted telescopic dump body hoist cylinder, a hydraulically driven integrated salt and abrasive spreader system requiring the simultaneous operation of two (2) hydraulic motors in two (2) different modes with conveyor reverse, a single acting snowplow lifting cylinder, a snowplow power angle system, plow balance system and an auxiliary equipment drive circuit YES NO

Are provisions made for future add on pre-wet system YES NO

Bidder: _____

Address: _____

Telephone Number: _____

Years company has been an authorized dealer for proposed unit: _____ years

Manufacturer, model, series, and date of manufacture of proposed central hydraulic system:

Component Technology Model SG03040008 West Virginia System
Henderson Muni - Manufactured as required for Contract

Is descriptive literature full describing proposed central hydraulic system attached to your bid proposal? YES NO

If NO, refer to specification statement Section 6.6

When will required number of operating manuals, service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon? _____ prior to deliver of unit or with each unit.

Describe: _____

Pro-Wet System:

Does supplied spreader control contain the ability to control a closed loop pre-wet system YES NO

Does system operate using a flow meter feedback circuit YES NO

Does controller software allow for adjustability of pre wet output by the operator, represented in gallons per ton YES NO

Is information related to pre wet application rate and total flow in gallons displayed on the screen while the pre wet system is active YES NO

Does central hydraulic system have a minimum two (2) year basis bumper to bumper warranty including parts and labor? YES NO

X10.1 Pump System:

- X10.1.1 Pump: Variable volume pressure compensated load sensing axial piston type YES NO
- X10.1.2 Front mounting flange and main housing/case of cast iron construction YES NO
Inlet and outlet port section of high strength ductile iron with SAE split flange porting or orb type porting YES NO
- X10.1.3 Is suction port and associated plumbing sized to allow for minimum inlet restriction between the pump and the suction port on the reservoir? YES NO
Does installation comply with pump manufacturers allowable inlet condition specifications YES NO
Is suction plumbing equal to or greater than pump inlet or suction size YES NO
- X10.1.4 Is pressure port of the SAE split flange or ORB type side mounted for direct bolt mounting of solenoid shut down valve assembly YES NO
- X10.1.5 Case drain and load sense signal ports of the SAE O-ring type YES NO
Case drain line taken directly to tank without passing through the return line filter YES NO
- X10.1.6 Input shaft has a minimum continuous torque rating equal to 200 % of the imposed load when pump is operated at maximum engine rpm, maximum displacement and system pressure YES NO
Is it minimum SAE "C" keyed YES NO
- X10.1.7 Front input shaft bearing heavy duty ball or roller type designed for high axial and radial loading YES NO
Rear shaft bearing of the high speed and load sleeve type design YES NO
Bearings fully lubricated by flooded case oil YES NO
- X10.1.8 Ramp/washplate supported by pressure lubricated bearings of the rocker cam or saddle type for high piston load support YES NO
Ramp angle positioning by means of dual servo control cylinders for rapid pump response and precise pump output control YES NO
- X10.1.9 Adjustable load sense and high pressure compensator control valve assembly of the full cartridge or of bolt on housing design for ease of replacement and repair YES NO

X10.1.9.1 System design and components provide flow, pressure and performance requirements ^{7.6} with a maximum operating load sense differential pressure of 300 PSI and a maximum standby pressure of 350 PSI for maximum efficiency.

If pilot control shifted valving is used, is it designed to be fully functional within this pressure range YES NO

X10.1.9.2 High pressure compensator valve preset to limit the maximum pump output pressure to maximum required operating pressure plus load sense differential and margin pressure to prevent premature de-stroking of ramp resulting in reduced or insufficient pump output YES NO

X10.1.10 Pump Output: Is it capable of providing hoist cylinder extension required YES NO

Part number Malhoit CS130-8-3 - 15.5 gallons to fully extend but after filling 11 gallons is required to raise the cylinder.

10 GPM flow rate	<u>66</u> seconds to raise
15 GPM flow rate	<u>44</u> seconds to raise
20 GPM flow rate	<u>33</u> seconds to raise
25 GPM flow rate	<u>26</u> seconds to raise
30 GPM flow rate	<u>22</u> seconds to raise
35 GPM flow rate	<u>19</u> seconds to raise
40 GPM flow rate	<u>16</u> seconds to raise

Part number Malhoit CS-130-5-3 - 10.2 gallons to fully extend 1.2 gallons to fill and 9 gallons to extend

5 GPM flow rate	<u>87</u> seconds to raise
10 GPM flow rate	<u>48</u> seconds to raise
15 GPM flow rate	<u>29</u> seconds to raise
20 GPM flow rate	<u>22</u> seconds to raise
25 GPM flow rate	<u>17</u> seconds to raise
30 GPM flow rate	<u>15</u> seconds to raise
40 GPM flow rate	<u>11</u> seconds to raise

X10.1.11 Is the make and model bid in compliance with overall quality of construction, design, and performance of the pump supplied YES NO

X10.1.12 Pump: Manufacturer and Model: Rexroth A10V071 Series S1

X10.1.13 Is pump manufacturers standard product release and design YES NO

X10.1.14 Is pump driveline assembly of the keyed shaft design utilizing a 4 bolt driveshaft flange and matching drive yoke on the pump YES NO

- X10.1.14.1 Does driveline have a minimum continuous torque rating equal to 200% of the imposed load when pump is operating at maximum system requirements YES NO
Manufacturer and Model: Spicer 1310 Series
- X10.1.14.2 Are dual journals and yokes incorporated to connect the pump shaft and engine drive flange with an angular misalignment no greater than six (6) degrees and not less than two (2) degrees YES NO
- X10.2 Pump Shutdown System:
- X10.2.1 Normally closed, energize to open, solenoid operated control valve of the cartridge and manifold design to be directly bolted to pump pressure port YES NO
Is solenoid electrical connection of the Packard "Weatherpack" type with "SO" cable wiring YES NO
- X10.2.2 Is valve controlled by a console mounted "Master On" switch with pilot lamp for normal system operation and by a float switch located in hydraulic reservoir to automatically shut off pump pressure port flow to all down stream functions in the event of low hydraulic oil level YES NO
- X10.2.3 Pressure drop across valve 40 PSI at 40 GPM flow when in the switched open position
Nominal valve rating 50 GPM at 3500 PSI
- X10.2.4 SAE #6 gauge port equipped with Parker Hannifin Model PD361 diagnostic coupling nipple and protective cap provided for pump output pressure testing to be installed in valve manifold and within an easily accessible mounting position YES NO
- X10.2.5 Valve designed to protect the pump from damage when the system is shut down at high pressure and flow operation YES NO
- X10.2.6 Valve manufacturer and model: Component Technology
- X10.2.7 Central control console mounted audio alarm and warning lamp indicating pump pressure/flow shutdown YES NO
- X10.2.8 Warning lamp press-to-test light and incorporate a switching system into the automatic shutdown assembly to simulate low oil level, shut off pump output flow and test float switch wiring and connection YES NO
- X10.2.9 A console mounted electrical override function switch provided to allow momentary operation of hydraulic functions in emergency situations YES NO
- X10.3 Directional Control Valve Assembly:
- X10.3.1 Valve stacked section type and of closed center circuit design YES NO

- X10.3.2 Each work section pressure and flow compensated with fully integrated load sense network 78
 YES NO
Flow output is relative to spool travel with preset maximum flow rate obtained at maximum spool stroke providing feathering control of operated function YES NO
- X10.3.3 Dump body, snowplow lift, and snowplow power angle sections of the manual cable shift type
 YES NO
Auxiliary circuit section of the electric solenoid shift type YES NO
Both ends of each section valve spool sealed with weather resistant caps or cable entry bonnets YES NO
- X10.3.4 Valve assembly flow capacity rating and pressure drop characteristics sufficient to provide for the required pump output and circuit flow rates at the specified maximum load sense differential pressure settings YES NO
- X10.3.5 All valve ports of the SAE o-ring seal type and of sufficient size to handle required section flow rates at stated load sense differential pressure YES NO
- X10.3.6 A priority section installed to allow plow to raise in a system over demand situation YES NO
- X10.3.7 Main pressure inlet relief valve provided to reduce system pressure shock loads YES NO
Is it preset at pressure so as not to interfere with pump pressure compensator and to prevent premature relief opening at system high demand operation YES NO
- X10.3.8 If pilot pressure reducing valve is required for solenoid section control, design meets operating requirements as set forth in Section 10.1.9.1 YES NO
Pilot supply and tank venting internal within the valve assembly section YES NO
- X10.3.9 Load sense network high pressure relief provided and preset to limit system maximum operating pressure YES NO
Set point provides proper pressure margin to pump pressure compensator and high pressure relief valve as to prevent premature loss of required flow rates and pressure capability YES NO
- X10.3.10 SAE #6 gauge 0port equipped with Parker Hannifin PD361 diagnostic coupling nipple with protective cap for load sense testing to be installed in an easily accessible location YES NO
- X10.3.11 Dump body control section 3-way three (3) position spring centered cylinder spool for operation of a single acting hoist cylinder YES NO

X10.3.11.1 Full flow workport relief valve installed in power up port YES NO 79

Set point to prevent operating pressure from exceeding hoist cylinder normal operating pressure rating YES NO

X10.3.11.2 Adjustable flow control installed to limit downward speed rate of dump body YES NO

X10.3.12 Snowplow lift control section is 3-way three (3) position spring centered cylinder spool with float detent for operation of a single acting lift cylinder YES NO

X10.3.12.1 Full flow workport relief valve preset at maximum required unlock pressure installed in power down workport YES NO

Workport relief valve installed in power up workport if maximum system pressure output setting exceeds normal operating pressure limit of plow lift cylinder YES NO

Is a three (3) way valve provided for plow hoist circuit YES NO

X10.3.12.2 Adjustable flow control installed to limit downward speed of snowplow YES NO

Flow limiting control system preset for proper plow lift speed to be supplied to reduce over demand operation and to increase system efficiency YES NO

Will flow limit be determined at time of pilot model review YES NO

X10.3.13 Snowplow power angle control section is 4 way three (3) position spring centered motor spool for operation of worm gear driven type reversing system YES NO

X10.3.13.1 Flow limiting control system preset for proper plow reversing speed to be supplied to reduce over demand operation and to increase system efficiency YES NO

Will flow limit be determined at time of pilot model review YES NO

X10.3.14 Plow Balance Valve:

X10.3.14.1 Is hydraulic system supplied with a plow balance valve YES NO

X10.3.14.2 Is valve designed to offset a specific (adjustable) plow weight when activated YES NO

X10.3.14.3 Does plow balance system not alter the operation of any other hydraulic function or have an adverse effect on the performance of other hydraulically operated equipment including:

- Wing Plow YES NO
- Body Hoist YES NO
- Plow Hoist or Angle YES NO
- Spreader functions YES NO

Are all normal operations of the plow lift/lower functions maintained without additional tasks YES NO

X10.3.14.4 Will plow lift be immediate to guarantee safe operation of the vehicle YES NO

X10.3.14.5 Are solenoid valve coils used YES NO

Will they have manual override capabilities YES NO

X10.3.14.6 Does manifold valve include a pressure test point for use when checking balance pressures YES NO

X10.3.14.7 Is pressure test point capable of tapping into system at pressures of 5,000 PSI YES NO

X10.3.15 Auxiliary equipment drive circuit control section 3-way three (3) position spring centered solenoid operated motor spool YES NO

Is the circuit separate and distinct from the spreader control system YES NO

X10.3.15.1 Flow limiting control system preset to provide 22 GPM at a system load pressure of 2200 PSI Pump is capable of supplying this flow rate with engine speed of 1173-67 RPM

X10.3.15.2 Is an inline mounted control valve supplied for this operation in place of directional control valve section YES NO

If supplied, is proper interconnections and venting of load sense network system provided YES NO

X10.3.15.3 Is pressure line 3/4" SAE 100R2 hose and manifold mounted at rear of chassis and equipped with Parker Hannifin SH6-62 quick disconnect coupler and protective metal plug YES NO

Is mating nipple SH6-63 with protective cap supplied YES NO

Will mounting location be determined at time of pilot model review YES NO

X10.3.15.4 Manufacturer and model of directional and auxiliary circuit valves:

Rexroth MP-18 Series

X10.3.16 Is directional control valve assembly located in a combination tank/valve enclosure assembly to protect the hydraulic tank/valve from the elements YES NO

Capacity of reservoir (tank) 40 gallon

X10.3.17 Pre-Wet Circuit:

- X10.3.17.1 Is a separate circuit provided to control an add-on pre-wet system YES NO
- X10.3.17.2 Is hydraulic valve of the sectional type YES NO OR of the cartridge style contained in a manifold YES NO
- X10.3.17.3 If manifold type valve is supplied, is it attached to the main valve assembly YES NO
- X10.3.17.4 Is all wiring to pre-wet hydraulic circuit provided as part of the system contained in the bid YES NO
- X10.3.17.5 Is wiring to the control console related to the rest of the pre-wet system (low level float, flow meter connection, etc.) provided as part of the pre-wet package at the time of pre-wet system install YES NO

X10.4 Spreader Control Valve Assembly:

- X10.4.1 Are spinner and conveyor solenoid flow controls of the PWM proportional solenoid type and equipped with manual overrides YES NO
- Are overrides manually adjustable over operating flow range in the event of electrical system failure YES NO
- X10.4.2 Flow control circuits are pressure compensated YES NO
- Provides spinner and pre-wet flow rate of 7 GPM and a conveyor flow rate of 15 GPM
- Pressure relief valve system limit circuits to 2200 PSI
- X10.4.3 Load sense circuits connected to directional control valve network for proper pump control YES NO
- Does design prevent improper high pressure load sense signal and pressure line loading when spreader valve is not in use and when spreader quick disconnects are uncoupled YES NO
- X10.4.4 Is PWM solenoid control supplied by microprocessor spreader control system YES NO
- Are solenoids capable of 100% PWM signal without failure YES NO
- X10.4.5 Solenoid operated directional control valve and in-cab mounted electrical switch operates spreader conveyor reverse required for front or rear material discharge selection provided YES NO
- X10.4.6 Is electrical switching and indicator light for spreader clogged indication provided YES NO
- X10.4.7 Manufacturer and model of valve: Kenroth MP-18 Series

- X10.5 Spreader Control System:**
- X10.5.1 Dual flow, ground speed oriented spreader control system of the closed loop microprocessor based type with nonvolatile control memory YES NO
 - X10.5.2 Automatic calibration and flexibility of programming YES NO
 - X10.5.3 System is capable of operation in ground speed oriented closed loop conveyor feed back, open loop, manual set, blast and unload modes and fully functional in both front and rear material discharge selection YES NO
 - X10.5.4 Automatic switchover with display indication from closed loop to open loop operation in the event of loss of feed rate sensor signal is provided YES NO
 - X10.5.5 Control console digital readouts capable of displaying actual application rate, vehicle ground speed, distance of spread route driven and total quantity of material spread YES NO
 - X10.5.6 Programming and output cable connection for material and trip information printer and program uploading is provided YES NO
 - X10.5.7 Control unit capable of accumulating display information up to 999,999 miles and 999,999 tons of discharged material YES NO
 - X10.5.8 Console programming capable of selection, calibration and display of four (4) separate spread materials with independent application rates of each material capable of being set to fixed rates or to rate increments of a preset maximum application rate YES NO
 - X10.5.9 A variable digital access code lockout for application rate selection and for system operating parameters is provided YES NO
Is it a key switch YES NO
 - X10.5.10 Backlighted switches and LCD screen utilized for on-board programming and for display readout and application rate selection YES NO
 - X10.5.11 Is material spread width selectable by no less than 10 position switch with minimum and maximum spinner speed totally programmable through entire flow range YES NO
Is spinner speed capable of linking to ground speed for on-off control YES NO
 - X10.5.12 Does display enunciate error message and sound audio alarm when microprocessor system detects any loss of control or accuracy YES NO
 - X10.5.13 Will system be fully functional at time of delivery YES NO
 - X10.5.14 Is truck speed sensor compatible with type of speedometer drive system supplied on chassis YES NO
 - X10.5.15 Is a built-in ground speed simulator provided either internal to the control or located in the control console YES NO

- X10.5.16 Are all components required for proper installation and operation of control system onto truck and spreader units supplied YES NO
- X10.5.17 Manufacturer and model of proposed control system:
Compant Technology S651/S653 w/Q1400 Control
- X10.6 Central Control Console:
- X10.6.1 Mounted between seats within easy access of the driver YES NO
- X10.6.1.1 Warning light (bed raised) control console mounted YES NO
- X10.6.2 Will all wiring, valve control cables and electrical harness entry into cab and console sealed with grommets YES NO
- X10.6.3 Are remote control valve levers console mounted YES NO
- Are all levers clearly marked as to function and operation YES NO
- X10.6.3.1 Remote control levers to operate push-pull type cables with 250" diameter stainless steel rod ends YES NO
- X10.6.3.2 Is inner cable member 18-8 stainless steel armor wrapped construction with a low resistance nylon liner and polyethylene covered tempered steel wire conduit YES NO
- X10.6.3.3 Is cable to valve connection of the weather resistant bonneted type YES NO
- X10.6.3.4 Hoist control lever OSHA compliant (hoist interlock) YES NO
- X10.6.4 Are central console or dash mounted rocker switches with indicator lamps provided for strobe lights, spreader light and plow lights isolated from all hydraulic system control circuits YES NO
- X10.6.4.1 Are interconnections and cables installed and ready for operation YES NO
- X10.6.4.2 Is hydraulic system automatic shutdown system and control switching relay controlled YES NO
- X10.6.4.3 Relay(s) mounted within the cab YES NO
- X10.6.4.4 An access plate to internal wiring is provided YES NO
- X10.7 Hydraulic Reservoir:
- X10.7.1 Tank/valve enclosure flex mounted to the chassis frame rail YES NO
- X10.7.2 Tank constructed of 7 gauge 304 stainless steel YES NO
- X10.7.3 Tank equipped with a combination oil level sight glass and thermometer YES NO

- X10.7.4 Tank equipped with a pressurized ten (10) micron filter/breather cap with removable 500 micron Strainer YES NO
- X10.7.5 Is an internal steel baffle provided within the tank YES NO
- X10.7.6 Tank stenciled with minimum of 1 1/2" high "Hydraulic Oil" YES NO
- X10.7.7 Tank level switch connection "SO" type wiring and flange mounted within the tank/valve enclosure to protect it from the elements YES NO
- X10.7.8 Pump supply suction port 2 inches NPT and system report port 1 1/4 inches NPT
- X10.8 Filtration:
 - X10.8.1 Manufacturers standard filtration to adequately protect the hydraulic system from damage YES NO
 - X10.8.2 Return line filter isolated from reservoir by a full flow non-restrictive type quarter turn brass ball valve if filter not installed in reservoir YES NO
 - X10.8.3 Each filter equipped with a differential pressure switch to indicate filter clogged condition by means of a console mounted indicator lamp YES NO
 - X10.8.4 One (1) extra replacement filter for each assembly is provided for each truck YES NO
 - X10.8.5 Filter assemblies positioned as close to reservoir as possible and in an easily accessible service location YES NO
- X10.9 Hoses and Fittings:
 - X10.9.1 Each hose assembly (hose with hose ends) except for suction hose is fitted with JIC swivel connections on ends where connection to system component is made YES NO
 - X10.9.2 All pressure line hoses meet or exceed SAE Specification 100R2 and are equal to Gates high pressure hose, type C2AT for sizes up to and including 1 inch ID YES NO
 - X10.9.3 Suction hose 2 inch nominal ID and meet SAE Specification 100R4, braided fiber, spiral wire reinforced, rubber covered hose with replaceable bolt-on type fittings YES NO
 - X10.9.4 All hydraulic hoses fully cleaned on interior, installed, and ready for operation YES NO
 - X10.9.5 Are grommets used when routing hoses through steel bracketing or frame members YES NO
 - X10.9.6 Are Snap-Tite quick disconnects (manifold mounted) supplied for forward and rear spinner 1/2 inch pressure and return lines YES NO
 - Is iron or galvanized iron pipe for fittings and connectors used YES NO
 - X10.9.7 Are all fittings and connectors steel type designed for high pressure hydraulic system use YES NO

- X10.9.8 Pipe thread ported components and connectors are only used when the specific component is not available with SAE or JIC porting YES NO
 - X10.9.9 Are all pipe thread connectors used coated with liquid Teflon pipe sealer prior to assembly YES NO
 - X10.9.10 Hoses that run to the front of truck chassis for snowplow functions are manifold mounted behind the front bumper with sufficient access for pump service and snowplow hitch installation YES NO
 - X10.9.11 Are snowplow lines equipped with complete 1/2 inch "VH" series Snap-tite quick disconnects (coupler and nipple supplied) and metal caps and plugs YES NO
- X10.10 Items not specifically stated but are necessary for proper system installation and operation are supplied and comply with recommended hydraulic industry standards:
-

- X10.11 Will initial servicing and pre-testing of hydraulic system be included for:
- X10.11.1 Initial fill of reservoir with a high grade 32 AW hydraulic fluid to approximately 40 gallon level, marked on sight glass YES NO
 - X10.11.2 Start-up and initial run of hydraulic system, checking for leaks, excessive heat, system efficiency YES NO
 - Will you replace any defective component YES NO
 - Will you cover any defects discovered at time of plow installation if equipment is not available at time of initial test of plow circuits YES NO
 - X10.11.3 Refill reservoir to the 40 gallon operating level YES NO
- X10.12 If any hydraulic lines are located within 10 inches of exhaust system are they metal lines and insulated YES NO
- X10.13 Are detailed component specifications, product literature, system component layout drawing with bill of materials and full functional hydraulic system schematics in accordance with JIC and ANSI-Y32 format attached with your bid YES NO
- X10.14 If successful vendor, will you provide WVDOH with a complete list of all filters required for normal maintenance on proposed unit YES NO
- X10.15 Explain your training sessions with each purchase order covering the operation, maintenance, trouble shooting and calibration/programming of the hydraulic system and spreader controls and where will they be held:
Three (3) one (1) day Training Sessions per PO
-

FROM:
XB.18.4.1

Rear Wheels: Size _____
10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc YES NO
Rated at _____ lbs. at a maximum inflation pressure of _____ PSIG
Manufacturer and Model: _____
With 0.500 inch thick disc, non standard off set with steel hubs YES NO
Powder coated with color similar to gray YES NO

TO:
XB.18.4.1

Rear Wheels: Size _____
10 hole 285.75 mm bolt circle with 220mm bore, tubeless steel disc
 YES NO
Rated at _____ lbs. at a maximum inflation pressure of _____ PSIG
Manufacturer and model: _____
With 0.472 inch thick disc YES NO
Powder coated YES NO Gray top coat YES NO

FROM:
XB.25.1

Will a preventive maintenance and operator's training seminar be provided
 YES NO

TO:
XB.25.1

Will a preventive maintenance and operator's training seminar be provided
 YES NO

Manuals (OR) CD

FROM:
X10.3.12

Snowplow lift control section is 3 way three (3) position spring centered cylinder
spool with float detent for operation of a single acting lift cylinder YES NO

TO:
X10.3.12

Snowplow lift control section is 4 way three (3) position spring centered cylinder
spool with float detent for operation of a single acting lift cylinder
 YES NO

FROM:

X10.3.14.5

Are solenoid valve coils used YES NO

Will they have manual override capabilities YES NO

TO:

X10.3.14.5

Are solenoid valve coils used

YES NO

Will they have manual override capabilities if needed for continued use when coils fail

YES NO

Prepared for:
Don Weese
WV Dept of Highways
Rt 33 Brushy Fork Road
Buckhannon, WV 26201
Phone: 304-472-1750

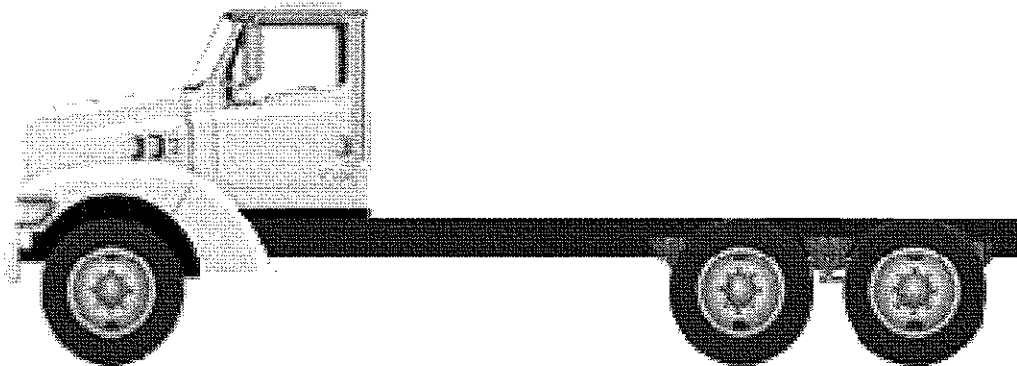
Prepared by:
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A proposal for
WV Dept of Highways

Prepared by
HERITAGE EQUIPMENT, INC.
Mike Coburn

Oct 17, 2007
2008

STERLING LT9511 MUNIBODY



Prepared for:
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S P E C I F I C A T I O N P R O P O S A L

Description	Weight Front	Weight Rear
Price Level		
STERLING PRL-22M (EFF:04/03/07)		
Data Version		
SPECPRO21 DATA RELEASE VER 010		
Vehicle Configuration		
STERLING LT9500 CHASSIS	7,080	6,660
2008 MODEL YEAR SPECIFIED		
SET FORWARD AXLE - TRUCK		
TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10
LH PRIMARY STEERING LOCATION		
General Service		
TRUCK/TRAILER CONFIGURATION		
DOMICILED, USA 50 STATES (WITH CALIFORNIA)		
UTILITY/REPAIR/MAINTENANCE SERVICE		
GOVERNMENT BUSINESS SEGMENT		
DIRT/SAND/ROCK COMMODITY		
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
MAXIMUM 8% EXPECTED GRADE		
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
STERLING LEVEL II WARRANTY		
EXPECTED FRONT AXLE(S) LOAD : 18000.0 lbs		
EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		
EXPECTED GROSS VEHICLE WGT CAPACITY : 64000.0 lbs		
EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs		



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 Phone: 304-254-7827

Description	Weight Front	Weight Rear
Truck Service		
FRONT PLOW/END DUMP BODY		
EXPECTED TRUCK BODY LENGTH : 14.6 ft		
REQUESTED CAB TO TRUCK BODY CLEARANCE : 3.0		
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0		
Engine		
MBE4000-370 12.8L 370 HP @ 1900 RPM, 2000 GOV RPM, 1450 LB/FT @ 1100 RPM		
Engine Equipment		
2007 EPA/CARB EMISSION CERTIFICATION		
ENGINE MOUNTED OIL CHECK AND FILL		
DUAL AIR INTAKE THROUGH LH AND RH SIDES WITH 2 STAGE DONALDSON CLEANER WITH SAFETY ELEMENT FIREWALL MOUNTED		
DR 12V 160 AMP 24-SI QUADRAMOUNT PAD ALTERNATOR	-10	
(3) ALLIANCE MODEL 1131, GROUP 31, 12 VOLT MAINTENANCE FREE 2775 CCA THREADED STUD BATTERIES	55	20
BATTERY BOX WITH ALUMINUM COVER MOUNTED SHORT SIDE TO RAIL		
SINGLE BATTERY BOX FRAME MOUNTED LH UNDER CAB EXTREME FORWARD MOUNTING		
FRAME GROUND RETURN FOR BATTERY CABLES		
NON-POLISHED BATTERY BOX COVER		
NO BATTERY/ISOLATOR CONTROL		
EATON FULLER 15-1/2" DAMPENED CERAMIC CLUTCH, 2 PLATE, 4 BUTTON, 7 SPRING, LOW RATE, EASY PEDAL		
TORQUE LIMITING CLUTCH BRAKE		
ZERK FITTING WITH EXTENSION HOSE AT CLUTCH RELEASE BEARING		
WABCO 15.5 CFM AIR COMPRESSOR		
STANDARD AIR COMPRESSOR GOVERNOR		
STEEL AIR COMPRESSOR DISCHARGE LINE WITH INTEGRAL QUICK CONNECT SYSTEM CHARGING VALVE		
ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		



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Description	Weight Front	Weight Rear
MERCEDES BENZ STANDARD COMPRESSION/TURBO BRAKE WITH (1) ON/OFF AND (1) LOW/MEDIUM/HIGH BRAKING SWITCH		
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT DEVICE WITH RH CAB MOUNTED VERTICAL TAILPIPE	-20	-20
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
12' 00" (144"+0/-5") EXHAUST SYSTEM HEIGHT		
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
BORG WARNER (KYSOR) K26RA REAR AIR ON/OFF ENGINE FAN CLUTCH		
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
MBE FUEL FILTER		
FULL FLOW OIL FILTER		
1500 SQUARE INCH ALUMINUM RADIATOR		
ANTIFREEZE TO -34F, TEXACO EXTENDED LIFE COOLANT		
GATES BLUE STRIPE COOLANT HOSES		
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20	
PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER	4	
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
MITSUBISHI 12V 105P55 TYPE STARTER WITH INTEGRATED MAGNETIC SWITCH		
Transmission		
EATON FULLER RTO-14908LL TRANSMISSION	80	20
Transmission Equipment		
NO WRG/ELECTRONICS-TRANSMISSION		
VEHICLE INTERFACE WIRING CIRCUIT ACCESS BOX MOUNTED END OF FRAME WITH FUSE PANEL WIRE		
CAST IRON CLUTCH HOUSING	40	10
NO MAIN TRANSMISSION MOUNTED PTO		



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Description	Weight Front	Weight Rear
NO PTO MOUNTING LOCATION SPECIFIED		
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION FILL AND DRAIN, AXLE(S) FILL AND DRAIN		
PAINTED SHIFT LEVER, SOLID LINKAGE		
NO OPTIONAL MAIN TRANSMISSION SUPPORT		
Front Axle and Equipment		
AF-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	210	
MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
NON-ASBESTOS FRONT BRAKE LINING		
CONMET CAST IRON FRONT BRAKE DRUMS		
FRONT BRAKE DUST SHIELDS	5	
CHICAGO RAWHIDE SCOTSEAL PLUS XL FRONT OIL SEALS		
STEMCO ALUMINUM VENTED FRONT HUB CAPS WITH WINDOW AND CENTER AND SIDE PLUGS - OIL		
STANDARD SPINDLE NUTS FOR ALL AXLES		
HALDEX AUTOMATIC FRONT SLACK ADJUSTERS		
TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130	
POWER STEERING PUMP		
4 QUART POWER STEERING RESERVOIR	5	
OIL/AIR POWER STEERING COOLER	5	
Front Suspension		
20,000# FLAT LEAF FRONT SUSPENSION	200	
GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
FRONT SHOCK ABSORBERS	50	
Rear Axle and Equipment		
RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE		490
4.56 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
18N MERITOR MAIN DRIVELINE WITH FULL ROUND YOKES	50	50
17N MERITOR INTERAXLE DRIVELINE WITH FULL ROUND YOKES		
DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		40



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Description	Weight Front	Weight Rear
INTERAXLE AND/OR DIFFERENTIAL LOCKOUT WITH INDICATOR LIGHT		
MOBIL SYNTHETIC 50W TRANSMISSION OIL AND 75W-90W ALL AXLES		
MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		20
NON-ASBESTOS REAR BRAKE LINING		
HIGH MOUNT CAM BRAKE CHAMBER POSITION WITH AUXILIARY SUPPORT BRACKETS		
CONMET CAST IRON REAR BRAKE DRUMS		
REAR BRAKE DUST SHIELDS		10
CHICAGO RAWHIDE SCOTSEAL PLUS XL REAR OIL SEALS		
HALDEX GOLDSEAL LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		
HALDEX AUTOMATIC REAR SLACK ADJUSTERS		
Rear Suspension		
HENDRICKSON RT463 REAR SUSPENSION @ 46,000#		830
HENDRICKSON RT/RTE - 6.00" SADDLE		
54" AXLE SPACING		10
STEEL BEAMS AND BRONZE CENTER BUSHINGS WITH BAR PIN ADJUSTABLE END CONNECTIONS		
FORE/AFT CONTROL RODS		
Brake System		
WABCO 4S/4M ABS WITHOUT TRACTION CONTROL ENHANCEMENT		
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
STANDARD BRAKE SYSTEM VALVES		
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	40	
AIR DRYER MOUNTED INBOARD ON LH RAIL		
STEEL AIR BRAKE RESERVOIRS		
PETCOCK DRAIN VALVES ON ALL AIR TANK(S)		
Trailer Connections		
AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK		
PRIMARY CONNECTOR/RECEPTACLE CENTER PIN POWERED THROUGH IGNITION		

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Description	Weight Front	Weight Rear
SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		
Wheelbase & Frame		
5300MM (209") WHEELBASE		
7/16" X 3-9/16" X 11-1/8" STEEL FRAME (11.11MM X 282.6MM/.437" X 11.13")120KSI	390	220
PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION	180	
1600MM (63") REAR FRAME OVERHANG FRAME OVERHANG RANGE: 61" TO 70"		
24" INTEGRAL FRONT FRAME EXTENSION SQUARE END OF FRAME	100	
STANDARD WEIGHT ENGINE CROSSMEMBER STANDARD MIDSHIP #1 CROSSMEMBER(S) STANDARD REAR MOST CROSSMEMBER STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment		
OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-90	
FRONT TOW HOOKS - FRAME MOUNTED CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD LEFT RAIL AND BETWEEN RAILS MUST BE CLEAR IN AN AREA 23" TO 38" BACK OF CAB TO A SSURE SPACE FOR INSTALLATION OF SPINNER CHUTE GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
Fifth Wheel		
NO FIFTH WHEEL		
Fuel Tanks		
NO RH FUEL TANK	-80	-20
60 GALLON/227 LITER ALUMINUM FUEL TANK - LH 25" DIAMETER FUEL TANK(S) ALUMINUM FUEL TANK BRACKET(S) PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS FUEL TANK(S) FORWARD FUEL TANK CAP(S)	80	25
ALLIANCE FUEL FILTER/WATER SEPARATOR WITH HEATED BOWL AND PRIMER PUMP	15	



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Description	Weight Front	Weight Rear
EQUIFLO INBOARD FUEL SYSTEM		
REINFORCED NYLON FUEL HOSE		
IN TANK FUEL LEVEL SENDER(S)		
Tires		
315/80R22.5 20 PLY RADIAL FRONT TIRES		
GOODYEAR G287 315/80R22.5 20 PLY RADIAL FRONT TIRES	82	
11R22.5 16 PLY RADIAL REAR TIRES		
GOODYEAR G244 MSD 11R22.5 16 PLY RADIAL REAR TIRES		224
Hubs		
CONMET PRE-SET BEARING IRON FRONT HUBS		
CONMET PRE-SET BEARING IRON REAR HUBS		
Wheels		
ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	50	
ACCURIDE 29169 22.5X8.25 10-HUB PILOT HD5-HAND STEEL DISC REAR WHEELS		
NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES		
Cab Exterior		
111" BBC CONVENTIONAL STEEL CAB		
RH CAB DOOR(S) WITH 55 DEGREE DOOR STOP		
LH CAB DOOR(S) WITH 55 DEGREE DOOR STOP		
NO SLEEPER BOX/SLEEPER CAB		
NO AIR SHIELD OR BRACKETS		
STERLING VALANCE PANEL		
AIR CAB MOUNTS	20	
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
FRONT FENDER, STANDARD		
LH AND RH EXTERIOR GRAB HANDLES AND RH INTERIOR GRAB HANDLE MOUNTED TO 'A' POST		
BRIGHT FINISH STATIONARY GRILLE		
BODY COLOR HOOD MOUNTED AIR INTAKE GRILLE		
THERMOSET POLYMER HOOD		
DUAL ROUND AIR HORNS, SINGLE BASE, CAB ROOF MOUNTED	8	
SINGLE ELECTRIC HORN		
DUAL HORN SHIELDS		



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Description	Weight Front	Weight Rear
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
SINGLE RECTANGULAR HALOGEN HEADLIGHTS WITH BRIGHT BEZELS		
AERODYNAMIC MARKER LIGHTS - SMALL		
WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS		
INTEGRAL STOP/TAIL/BACKUP LIGHTS		
STANDARD FRONT TURN SIGNAL LAMPS		
DUAL AERO BRIGHT FINISH HEATED 4-WAY ADJUSTABLE MIRRORS WITH LH AND RH REMOTE		
DOOR MOUNTED MIRRORS		
96" EQUIPMENT WIDTH		
LH AND RH GROTE 8" STAINLESS STEEL CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
(2) 15"X26" TINTED REAR WINDOWS		
TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS		
RH AND LH ELECTRIC POWERED WINDOWS	4	
TINTED WINDSHIELD		
8 LITER WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR		
Cab Interior		
GRAPHITE BLACK VINYL INTERIOR		
MOLDED DOOR PANEL		
MOLDED DOOR PANEL		
DARK TAUPE VINYL MATS WITH SINGLE INSULATION		
CONSOLE MOUNTED ASHTRAY AND DASH MOUNTED LIGHTER		
CENTER STORAGE, CONSOLE, BELOW DASH WITH (2) CUP HOLDERS	10	
(1) COAT HOOK ON BACKWALL OF CAB		
SAHARA/ASH WING DASH		
5 LB. FIRE EXTINGUISHER	10	
HEATER, DEFROSTER AND AIR CONDITIONER	70	
MAIN FRESH AIR INLET AND MAIN RECIRCULATION FILTERS		
MAIN HVAC CONTROLS WITHOUT RECIRCULATION SWITCH		
STANDARD HEATER PLUMBING		



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Description	Weight Front	Weight Rear
SANDEN HEAVY DUTY AIR CONDITIONER COMPRESSOR		
RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
BINARY CONTROL, R-134A		
CAB INSULATION WITH ADDITIONAL NOISE AND THERMAL TREATMENT		
AUTOMATIC SELF-RESET CIRCUIT BREAKERS		
CENTER MOUNTED DOME LIGHT		
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS		
TRIANGULAR REFLECTORS WITHOUT FLARES	10	
NATIONAL 2000 SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT WITH ACTIVE AIR LUMBAR SUPPORT	10	
NATIONAL 2000 SERIES HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH ACTIVE AIR LUMBAR SUPPORT	60	20
CLOTH WITH CLOTH INSERT DRIVER SEAT		
CLOTH WITH CLOTH INSERT PASSENGER SEAT		
3 POINT ADJUSTABLE D-RING RETRACTOR DRIVER AND PASSENGER SEAT BELTS		
ADJUSTABLE TILT ONLY STEERING COLUMN	5	
2-SPOKE 18" (450MM) BLACK STEERING WHEEL(S)		
DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

STERLING ELECTRONIC GAUGE CLUSTER - ICU3
 NON-ADJUSTABLE SUSPENDED CLUTCH, BRAKE AND ACCELERATOR PEDALS
 BLACK GAUGE BEZELS
 MULTIPLEX DRIVER INSTRUMENT PANEL
 DARK TAUPE CENTER INSTRUMENT PANEL WITH FLAT GAUGE INSERT
 LOW AIR PRESSURE LIGHT AND BUZZER
 2" PRIMARY AND SECONDARY AIR PRESSURE GAUGES
 DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS
 ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)
 KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY



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Description	Weight Front	Weight Rear
ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS, DATA LINKED, ICU3		
DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1587/1708/1939, LOCATED BELOW DASH		
2" ELECTRIC FUEL GAUGE		
PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE		
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
PANASONIC INSIDE/OUTSIDE TEMPERATURE GAUGE WITH BLACK BEZEL AND LCD FAHRENHEIT DISPLAY		
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
ELECTRIC ENGINE OIL PRESSURE GAUGE		
AM/FM/WB RADIO	10	
(2) RADIO SPEAKERS IN CAB		
MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM	2	
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER STANDARD VEHICLE SPEED SENSOR WITH SPEED SIGNAL AT FUSE PANEL		
ELECTRONIC 3000 RPM TACHOMETER		
TWO IGNITION CONTROLLED EXTRA SWITCHES WITH INDICATOR LIGHT, 20 AMPS, WIRED TO BACK OF CAB		
BW TRACTOR PROTECTION VALVE		
TRAILER BRAKE VALVE, HAND CONTROL		
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES		
(3) POSITION ROTARY HEADLAMP SWITCH WITH SEPARATE MARKER LIGHT INTERRUPTER SWITCH, DIMMER WITH INTERIOR DOME		
TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
SIGNAL STAT NON SELF CANCELING TURN SIGNAL SWITCH WITH BRAKE OVERRIDE AND STALK MOUNTED WIPER CONTROLS		
HEAVY DUTY MECHANICAL TURN SIGNAL FLASHER		

Design



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Description	Weight Front	Weight Rear
PAINT: ONE SOLID COLOR		
Color		
CAB COLOR A: N0006EA WHITE ELITE SS		
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
ACCURIDE PKGRY21 POWDER GRAY (N0020EA) FRONT WHEELS/RIMS		
ACCURIDE PKGRY21 POWDER GRAY (N0020EA) REAR WHEELS/RIMS		
Secondary Factory Options		
DEALER ACCEPTS RESPONSIBILITY FOR IN-SERVICE PDI INSPECTION		

TOTAL VEHICLE SUMMARY

Weight Summary			
	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	8900 LBS	8619 LBS	17519 LBS
Dealer Installed Options	0 LBS	0 LBS	0 LBS
Total Weight⁺	8900 LBS	8619 LBS	17519 LBS

ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE

Other Factory Charges

2007 ENGINE EMISSIONS ESCALATOR
 DELIVERY & ORDER PROCESSING CHARGE

Extended Warranty

EXTENDED VEHICLE WARRANTY 2 YEARS OR 100,000 MILES/160 000 KM



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Dealer Installed Options

	Weight Front	Weight Rear	Price (Local Currency)
HENDERSON MUNIBODY & COMPONENT TECH HYDRAULIC SYSTEM INSTALLED	0	0	
3 YEAR 100,000 MILE EXTENDED BASIC ENGINE COVERAGE (5 YEAR COVERAGE OF MAJOR COMPONENTS ONLY IS STANDARD)	0	0	
Total Dealer Installed Options	0 LBS	0 LBS	

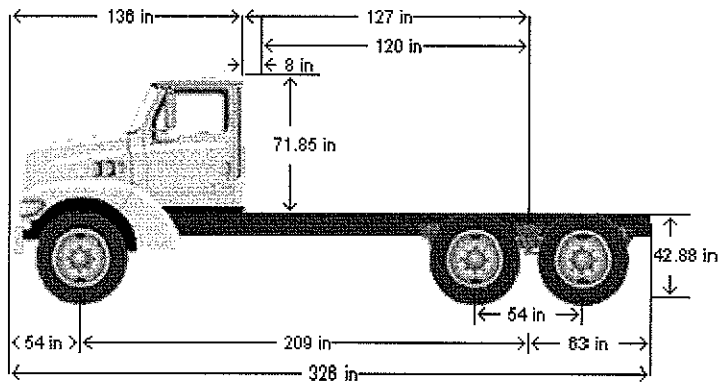
(+) Weights shown are estimates only.
 If weight is critical, contact sales application engineering.



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D I M E N S I O N S



EXHAST PIPE PROTRUSION IS 1.4" NOT 8" as SHOWN USEABLE CA IS 125.9"

VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....	LT9500
Wheelbase (545)	5300MM (209") WHEELBASE
Rear Frame Overhang (552).....	1600MM (63") REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577).....	NO 5TH WHEEL LOCATION



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Maximum Forward Position () 0
 Maximum Rearward Position () 0
 Amount of Slide Travel () 0
 Slide Increment () 0
 Desired Slide Position () 0.0
 Cab Size (829) 111" BBC CONVENTIONAL STEEL CAB
 Sleeper (682) NO SLEEPER BOX/SLEEPER CAB
 Exhaust System (016) RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT DEVICE WITH RH CAB MOUNTED VERTICAL TAILPIPE

TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	135.5
Bumper to Centerline of Front Axle (BA)	53.8
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	127.3
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	119.8
Back of Cab Protrusions (Exhaust/Intake) (CP)	7.8
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Clearance (CL)	7.8
Back of Cab to End of Frame	190.3
Cab Height (CH)	71.9
Wheelbase (WB)	209.0
Frame Overhang (OH)	63.0
Overall Length (OAL)	325.8
Rear Axle Spacing	54.0
Unladen Frame Height at Centerline of Rear Axle	42.9



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Q U O T A T I O N

STERLING LT9500 CHASSIS

SET FORWARD AXLE - TRUCK MBE4000-370 12.8L 370 HP @ 1900 RPM, 2000 GOV RPM, 1450 LB/FT @ 1100 RPM EATON FULLER RTO-14908LL TRANSMISSION RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE HENDRICKSON RT463 REAR SUSPENSION @ 46,000# AF-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE 20,000# FLAT LEAF FRONT SUSPENSION	111" BBC CONVENTIONAL STEEL CAB NO SLEEPER BOX/SLEEPER CAB 5300MM (209") WHEELBASE NO FIFTH WHEEL 7/16" X 3-9/16" X 11-1/8" STEEL FRAME (11.11MM X 282.6MM/.437" X 11.13") 120KSI 1600MM (63") REAR FRAME OVERHANG PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
--	--

			PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	82,528	\$	82,528
EXTENDED WARRANTY		\$	980	\$	980
DEALER INSTALLED OPTIONS		\$	51,912	\$	51,912
CUSTOMER PRICE BEFORE TAX		\$	135,420	\$	135,420

TAXES AND FEES

FEDERAL EXCISE TAX (FET)	\$	(341.0)	\$	(341.0)
TAXES AND FEES	\$	0	\$	0
OTHER CHARGES	\$	0	\$	0

TRADE-IN

TRADE-IN ALLOWANCE	\$	(0)	\$	(0)
BALANCE DUE	(LOCAL CURRENCY) \$	135,079	\$	135,079





Warranty

DC 995-1AH Sterling Level II warranty

Freightliner LLC warrants that each new Sterling vehicle, with the exception of certain excluded components and parts, will be manufactured to the specifications agreed upon and will be free from defects in material and workmanship which appear under normal use and service, subject to different time and distance limitations for specific components and parts as set forth below.

Description	Coverage ⁽¹⁾
Basic Vehicle <i>Extended to 2 years / 100,000 miles</i>	1 year or 100,000 miles/161 000 km
Alliance Batteries	1 year or 100,000 miles/161 000 km
Drivetrain	2 years or 100,000 miles/161 000 km
Cab Structure	5 years Unlimited
Cab Corrosion/Perforation	5 years Unlimited
Frame Rails	5 years Unlimited
Crossmembers	5 years Unlimited
Brightwork	6 months Unlimited
Chassis Paint	6 months Unlimited
Corrosion (excluding Cab Corrosion)	6 months Unlimited
Paint	1 year or 100,000 mi/161 000 km

1. Time or distance, whichever occurs first.



Extended Warranties

Code		Dealer Net Price	
		U.S. \$	Canadian \$
EXTENDED TOWING/ROADSIDE ASSISTANCE WARRANTY			
WAG-002	Towing/roadside assistance extended warranty—1 year/unlimited distance ₍₁₎₍₂₎₍₃₎₍₄₎₍₅₎₍₆₎	\$100	\$210
WAG-003	Towing/roadside assistance extended warranty—2 years/unlimited distance ₍₁₎₍₂₎₍₃₎₍₄₎₍₅₎₍₆₎		
	Available for 7500/8500	\$200	\$420
	Available for 9500	\$250	\$525
WAG-005	Towing/roadside assistance extended warranty—3 years/unlimited distance ₍₁₎₍₂₎₍₃₎₍₄₎₍₅₎₍₆₎	\$400	\$840
WAG-006	Towing/roadside assistance extended warranty—4 years/unlimited distance ₍₁₎₍₂₎₍₃₎₍₄₎₍₅₎₍₆₎	\$500	\$1,050

1. U.S. \$ prices are not available to Canadian dealers or to U.S. dealers for trucks domiciled in Canada. Canadian \$ prices are not available to U.S. dealers or to Canadian dealers for trucks domiciled in the U.S.
2. For U.S. dealer sold trucks domiciled in Canada or for unpublished Canadian options, obtain a quote by calling (503) 745-2715. For Canadian dealer sold trucks domiciled in the U.S. or for unpublished U.S. options, obtain a quote by calling (503) 745-7429.
3. Extended warranties will appear on the New Truck invoice after all discounts have been taken. These dollar amounts are not discountable by concessions or programs.
4. Extended warranties are not subject to Federal Excise Tax. Do not include in your FET calculation.
5. Fees paid for extended warranties are not refundable.
6. Not available with DC 995-1AJ Sterling Level III warranty.



New Vehicle Limited Warranty Statement

New Vehicle Coverage The following section outlines Company standard warranty coverages for all Company vehicles, apparatus, or chassis or cabs sold and domiciled in the USA (50 states and Washington, D.C.) and Canada. This information is also included in the Operator's Maintenance and Owner's Warranty Information Manual.

Under this New Vehicle Limited Warranty ("Warranty"), Company warrants that each new vehicle will be free from defects in material and workmanship that occur under normal use within the applicable warranty period, subject to certain limitations and exceptions as specified in this document.

This Warranty covers all components and parts unless specifically covered by other warranties or otherwise excluded by this document.

Limitations This Warranty does not apply to vehicles that are sold or domiciled outside of the United States (50 states and Washington, D.C.) and Canada.

This Warranty does not apply to engines, Allison transmissions, tires, or other components or parts that are not manufactured by Company and that are warranted directly by their respective manufacturers. Progressive damage caused by these manufacturers' components to any other parts including, but not limited to, parts installed by Company is excluded from Company warranty coverage. With respect to the foregoing, Company makes no warranty whether express, implied, statutory or otherwise including, but not limited to, any warranty of merchantability or fitness for a particular purpose.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND WHETHER WRITTEN, ORAL, OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY SPECIFICALLY EXCLUDES ANY OTHER WARRANTIES OR CONDITIONS PROVIDED FOR BY LAW, WHETHER STATUTORY OR OTHERWISE.

COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE, AT COMPANY'S OPTION, ANY DEFECTIVE COMPONENT OR PART. SUCH REPAIR OR REPLACEMENT SHALL BE WITHOUT COST TO PURCHASER WHEN PERFORMED WITHIN THE APPLICABLE WARRANTY PERIOD (TIME, DISTANCE, OR HOUR LIMIT, WHICHEVER OCCURS FIRST).

Purchaser must notify Company within the applicable warranty period of any failure of the vehicle to comply with this Warranty and Purchaser must, at Purchaser's expense, promptly return the vehicle, component, or part to an authorized Dealer for inspection and repair of any defect in material or workmanship occurring within the applicable warranty period.

The vehicle must be maintained and serviced according to the prescribed schedules outlined in the Driver's/Operator's and Maintenance Manuals. Receipted bills and other evidence that required maintenance and service have been performed are required by Company as a condition of this Warranty.

After the Company's obligations under this Warranty expire, all liabilities of Company to

Warranty



Purchaser under this Warranty shall terminate. Repairs made under this Warranty do not constitute an extension of the original Warranty period for the vehicle or for any specific component or part.

To the extent that any provision of this Warranty contravenes the law of any jurisdiction, such provision shall be inapplicable in such jurisdiction, and the remainder of the warranty shall not be affected.

Purchaser's Exclusive Remedy

This Warranty shall be the purchaser's sole and exclusive remedy against company, whether in contract, under statute (including statutory provisions as to conditions as to quality or fitness for any particular purpose of goods supplied pursuant to the contract of sale), warranty, tort, strict liability, or any other legal theory.

Limitation on Liability

COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE COST TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, THE DEFECTIVE COMPONENT OR PART THAT IN NO EVENT SHALL EXCEED THE FAIR MARKET VALUE OF THE VEHICLE AT THE TIME THE DEFECT IS DISCOVERED.

IN NO EVENT SHALL COMPANY BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, INJURIES TO PERSONS OR DAMAGE TO PROPERTY, LOSS OF PROFITS OR ANTICIPATED PROFITS, OR LOSS OF VEHICLE USE.

Exclusions

The following components, parts, or conditions, are specifically excluded from coverage under this Warranty.

Air Compressors, Engine and Other Proprietary Engine Components The engine manufacturer installs most air compressors and engine brakes. Any failure of a proprietary engine component or Jacob® Brake component must be filed directly to the engine manufacturer. Failures on non-proprietary components can be filed through the Freightliner LLC Warranty Department.

Air Springs Tolerance buildup can occur during the assembly process of the rear suspension and rear cab air springs, and can cause the springs to have the appearance of being crooked, misaligned or misinstalled. This tolerance buildup is not detrimental to the operation of the vehicle and will not have an affect on either the quality of the ride or the durability of the components or vehicle. Straightening of these springs is not covered under this Warranty.

Allison Transmissions Allison transmissions are not covered under this Warranty, but are warranted separately by Allison. Information regarding Allison's warranty is provided for informational purposes only and is subject to change. For warranty or service information, contact Allison's authorized sales and service facility.

Alignment of Axles/Wheels/Steering Wheel Each Freightliner vehicle manufacturing plant uses an integrated alignment system to align axles and wheels and to center the steering wheel to Freightliner LLC specifications. Realignment or readjustment of these items is not covered under warranty.

Any special alignment settings at the request of the Owner must be handled between



the Dealer and Owner after delivery from factory. These special adjustments are not covered under Warranty

Axle Breather Vents During the vehicle manufacturing process, an oil run or drip stain may appear at the breather vent. Removing the vent, applying pipe sealant to the threaded vent fitting and re-installing the vent is unnecessary. Removing the axle breather vent and re-sealing the threaded fitting is not covered under this Warranty.

Cab Interior Components The repair or replacement of cab interior components that are rendered unserviceable due to normal wear or abuse are not covered under this Warranty. These components include, but are not limited to:

- Upholstery
- Floor coverings (including floor mats)
- Curtains
- Window shades
- Steering wheel
- Steering wheel wrap

Chrome Surfaces, Aluminum and Stainless Steel Components The following items ARE covered under this Warranty:

- Chrome peeling off in sheets
- Chrome cut at mounting bolts due to over-torque at the factory
- Bubbles in the chrome that are not caused by rock chips and/or general rust conditions
- Isolated rust along seams or welds

The following items are NOT covered under this Warranty:

- General rust, for example, rust on the unfinished backside of a bumper
- Dimpling at the mounting bolts
- Staining, bluing, and/or yellowing that can be cleaned with a quality cleaning-product
- Rust, pits, and/or nicks caused by road wash or road debris breaking the chrome surface
- Streaks/stains/corrosion caused by severe wash solutions or corrosive road salts/chemicals

Claims pertaining to failures of chrome surfaces, aluminum, and stainless steel components will not be processed unless a clear digital picture is provided that adequately shows the defect.

Clutch Adjustment Clutch adjustments are normally required due to clutch wear and are considered normal maintenance. However, if the clutch adjustment is found to be outside of Company specifications during, or prior to, in-service of the vehicle, a warranty claim will be accepted on a one-time basis.

Claims for clutch adjustments will not be accepted unless the adjustment is found to be outside of Company specifications using the special clutch adjustment measuring tools provided by Company (e.g., adjusting the clutch to satisfy feel will not be accepted as warranty).

Competition Warranty will become void on any vehicle that is used in competition, including but not limited to:

- Racing
- Tractor pulls
- Other motorsports



Warranty

Consumable Parts Parts that are subject to consumption during their normal service life and are routinely replaced during normal maintenance services are only covered under this Warranty during the initial operating period. These items are:

- Antennas
- Ashtrays
- Belts
- Brake linings
- Cigarette lighter element
- Clutch brake
- Clutch linings
- Data logger batteries
- Desiccant cartridges
- Fire extinguishers
- Fluorescent ballast and tubes
- Fuses
- Gladhand
- Hosetennas
- Light bulbs
- Mattresses
- Mud flaps
- Mud flap mounting brackets
- Radiator cap
- Receiver-drier filter
- Sealed light assemblies
- Trailer air hoses
- Trailer electrical cables
- Windshield washer nozzles
- Wiper arms and blades

Consumable parts NOT covered under this Warranty include, but are not limited to, the following:

- Antifreeze
- Filters (fuel, air, oil, water)
- Fluids (unless low due to warrantable failure)
- Lubricants

Damage The following are not covered under this Warranty:

- Damage caused by use of the vehicle in any application that is not approved or is inconsistent with build specifications.
- Damage resulting from improper use or misuse or abuse, negligence, improper operation, improper or insufficient maintenance including, but not limited to, failure to properly maintain vehicle (as outlined in the Driver's/Operator's and Maintenance Manuals), overloading, unauthorized modifications, accidents, or operation at excessive speeds.
- Environmental damage, including airborne fallout (including chemicals, tree sap, etc.), or other atmospheric conditions, hailstones, or other acts of nature.
- Damage caused by road salts/chemicals or cleaning solvents, detergents or compounds.
- Storage deterioration including damage caused by improper or insufficient storage or maintenance.
- Damage caused by road hazards or road conditions.
- Damage caused during transport.
- Damages caused by high-pressure washing.
- Damages caused by Owner-installed sealer in air conditioning systems.
- Damages caused by engine horsepower/torque upgrades.
- Damage due to vibration associated with misapplication or misoperation of drivetrain components.

- Damage due to terrorist activities.
- Damage due to acts of war.

Engine The engine, including all of its components as supplied by the engine manufacturer, is not covered under this Warranty, but is warranted separately by the manufacturer of the engine. For engine warranty or service, contact the engine manufacturer's authorized sales and service facility.

Exhaust System Clamps During the early life of the vehicle or when the engine is cold, many exhaust clamps exhibit a soot trace. This condition is self-correcting and does not require adjustment, tightening, or replacement of the clamp. Claims for adjusting or tightening will not be paid under warranty.

Fifth Wheels Adjustment of the locking mechanism, slide locking plungers, and the repair or replacement of lock guards are considered routine maintenance and are not covered under this Warranty.

Fire Pumps Fire pump warranty applies only to pumps that have been specified on the original truck sales order (TSO).

Glass, Mirrors, Lens Glass, mirror or lens breakage or chips or scratches of glass, mirrors, or lenses are not covered by this Warranty.

Misapplication of Vehicle The warranty on any vehicle used inconsistently with its specified vocation/application will be downgraded to the warranty that is consistent with the vehicle use. Any and all claims associated with the misapplication of the vehicle will be subject to chargeback.

Miscellaneous Expenses Premium charges and work not directly related to the repair or replacement of a warranted part are not covered under this Warranty. Examples include, but may not be limited to:

- Federal, state, provincial, and local taxes
- Travel expenses
- Loss of revenue
- Customer labor including overtime labor
- Downtime
- Driver's expenses
- Cost of rental equipment
- Loss of cargo, including perishable cargo
- General housekeeping supplies (i.e., rags, solvents, sweeping compounds, coveralls, etc.)
- Communication charges
- Towing/road call assistance (unless coverage is specifically stated in the applicable warranty table)
- Repair or replacement of optional items not sold or installed by Company
- Removal or replacement of Dealer, body builder, or customer installed equipment
- Environmental fees
- Environmental cleanup
- Cost of emergency services

Modifications to Original Equipment Company does not warrant vehicle component or chassis modifications, or equipment installations arranged by Dealers or Owners. In addition, the extra time necessary to remove body builder installed items and/or equipment to work on a warranted repair is not covered under this Warranty unless

Warranty



Company sells the complete chassis/body/equipment as a package.

If Dealers or Owners perform any vehicle modifications or equipment installations, to the extent these modifications or equipment installations adversely affect other vehicle components or vehicle performance, the warranty is void as to those components.

Any claims resulting from vehicle modification or equipment installation are the sole responsibility of the person performing the modifications or equipment installations.

Ship Loose Items and Components During the manufacturing process, certain vehicle components are normally placed in the cab of the vehicle or strapped down to the chassis for security reasons. It is the Dealer's responsibility to mount these "ship loose" items in the correct location on the vehicle. Mounting of "ship loose" items will not be covered under warranty. These items include, but may not be limited to, the following:

- Antennas
- Fire extinguishers
- Trailer air hoses
- Trailer electrical cables
- Winter fronts
- Tire inflation hoses
- Spare wheels/tires
- Chrome lug nut covers
- Driver's pouch
- Jacks

Collapsible roof air fairings are collapsed on the roof of the vehicle at time of manufacture to accommodate the transport process. It is the Dealer's responsibility to mount these fairings correctly. Claims for mounting of these collapsed fairings will not be covered under warranty.

Routine Maintenance Routine maintenance, servicing, and adjustment, as defined in the applicable Vehicle Maintenance Manual and Driver's Manual, are excluded from Warranty. Periodic adjustment or retorque of wheel bearings, wheel lug nuts, and suspension U-bolts are considered maintenance adjustments and are not covered under warranty.

Vibrations, squeaks, rattles, loose fittings/clamps, hose fitting leaks, loose nuts/bolts/screws, and loose electrical connections may develop during the initial trip(s) of the vehicle and these types of repairs/adjustments are covered under warranty one time during the following applicable initial operating periods unless excluded in the paragraphs below.

Reminder: After the following initial operating periods, these developments are the result of use and their repair/adjustment activities are considered routine maintenance and thus excluded from warranty.

The initial operating period is considered to be:

Freightliner vehicles
Up to 15,000 miles (24 000 km)

Sterling vehicles



Up to 15,000 miles (24 000 km)

Western Star vehicles

Up to 15,000 miles (24 000 km)

Unimog

Up to 15,000 miles (24 000 km)

FCCC chassis

Up to 4,000 miles (6 400 km)

American LaFrance vehicles

Up to 250 hours

Exclusions from warranty during the initial operating period are:

- Cab, hood, and fender-mounted mirrors are adjusted at the factory but may be retracted by the transporter to prevent damage during transport. Subsequent adjustments and tightening of mirror mounting hardware are considered part of the routine preparation of the vehicle before Owner delivery. Claims for adjusting the mirrors or tightening of the attaching hardware will not be paid under warranty during the initial operating period or after.
- Claims for re-routing of electrical wiring, hoses, or lines which meet Freightliner's routing standards will not be paid under warranty during the initial operating period or after.
- Final preparation of the vehicle for Owner delivery to include cleaning/vacuuming interior of cab, washing windows, washing the exterior of the vehicle, polishing exterior chromed or painted surfaces are considered as delivering-Dealer responsibilities. Claims for these activities will not be paid under warranty during the initial operating periods or after.

The following is a summary of PDI activities, (as stated in the applicable vehicle service manuals), where the labor time for performing the activity is included in the normal PDI reimbursement process:

- Adjusting headlights
- Adjusting tire pressure
- Tightening of fittings, clamps, and connections on airlines; engine oil lines, radiator, coolant, and heater hoses; fuel lines; power steering and other hydraulic brake or clutch lines
- Tightening of spring/suspension u-bolts
- Tightening of drain and fill plugs
- Tightening of battery cable clamps and connections
- Torquing of drive-axle flange-fasteners
- Torquing of wheel nuts

Warranty claims for these repairs or adjustments will be allowed once during the initial operating period if performed by a Dealer other than the Dealer performing the PDI. Claims for these repairs or adjustments will not be accepted from the Dealer or center performing the PDI.

Test Vehicles Any vehicles being used in testing or used to test specific components must be identified to the Warranty Department and accommodations must be made for claims that relate to the test item(s).

Any vehicles used in endurance testing, such as the Altoona Test, are void of all warranty, new or used.



Extended Warranties

	<p>Tires and Tire Balancing The tires are not covered under this Warranty, but are warranted separately by the tire manufacturer. Tire balancing is not covered under warranty.</p>
Transfer of Warranty	<p>This Warranty is transferable to a subsequent Owner if it has not expired. To ensure the Owner receives proper warranty recognition, the ownership information should be updated in Service Advisor®. Instructions for transferring ownership can be found in the "Warranty Registration User Guide."</p>
Change of Owner Address Information	<p>To ensure Company's ability to reach the current Owner with Recall and Field Service campaign information, the Owner's account must be updated whenever there is a change to the Owner's name or address. Please refer to the New or Used Vehicle Warranty Registration User Guide for specific instructions.</p>
Product Improvement	<p>Company reserves the right to make improvements or changes to the product at any time, without incurring any obligation to make such changes or improvements to any other vehicle.</p>
Owner's Responsibilities	<p>It is the Owner's responsibility to ensure the vehicle is maintained as outlined in the Driver's/Operator's and Maintenance Manuals. It is important that the new Owner becomes familiar with the contents of the warranty information. When the Owner first receives the vehicle, the Owner's Warranty Information Book should be thoroughly reviewed by the Dealer page-by-page with the Owner.</p>

Extended Warranty Programs

Extended warranty is coverage on a part or group of parts beyond the stated warranty. The coverage extension can be in the form of distance, time, or time and distance. Sterling Trucks Extended Vehicle Warranties are available as published. Custom Extended Warranty packages are available, contact Product Support - Warranty.

Sterling Trucks provides complete vehicle coverage or coverage on selected components. The selected component coverage covers specific components in some of the systems. The selected component is designed to meet customer concerns on those high risk, high dollar failures. Vehicle coverage covers the majority of systems and parts on the truck. See Coverage Descriptions for details.

Extended Warranty Descriptions

Sterling Trucks Extended Basic Vehicle Warranty	<p>Extended Basic Vehicle Warranty extends New Vehicle Warranty for the basic vehicle. Extended Basic Vehicle Warranty Coverage is subject to the same restrictions and limitations of liability as the New Vehicle Warranty. Batteries not included.</p>
Sterling Trucks Selected Component Extended Warranties	<p>Climate Control System Includes all parts in the heater and air conditioning system, including electrical components and lines. Excludes maintenance charging and coolant lost because of loose fittings.</p> <p>Starter/Alternator Starter motor, starter solenoid, alternator and mounting brackets.</p>



Extended Warranties

Alliance Battery Coverage Covers labor and non-prorated parts value after first year of service. Excludes: cables, clamps, hold-downs and battery box.

Steering Steering gear box and power steering pump.

Cooling Radiator core, radiator tanks, cooling fan, fan hub assembly and mounting brackets and braces.

Eaton Fuller Transmission Includes: clutch housing, case, cover plate and all internal lubricated parts. Excludes: cost of lubricant replacement.

Transmission Upgrade Includes: clutch housing, case, cover plate and all internal lubricated parts. Excludes: cost of lubricant replacement.

Front/Rear Axles Front axle beams, spindles, drive axle differential assembly, axle shafts and housing, and all internal lubricated parts. Excludes drivelines, input and output seals, kingpins and kingpin bearings, tie rod ends, and front and rear axle attachments such as hubs, wheel seals and wheel bearings.

Suspension Steel springs, spring hanger brackets, axle mounting brackets, U-bolts, shackles and pins and torque rods less bushings.

Frame Rails/Crossmembers Upgrade Covers breaking or cracking of frame rails, crossmembers and gussets in approved applications.

Cab Covers cab and hood structural components, sheet metal panels and paint peeling and separation.

Cab Guard Removal Covers removal of cab guard and attached equipment not installed by Freightliner LLC in the event of a warrantable failure covered by a Basic Vehicle or Extended Basic Vehicle coverage in effect.

Body Removal Covers removal of body equipment not installed by Freightliner LLC in the event of a warrantable failure covered by a Basic Vehicle or Extended Basic Vehicle coverage in effect.

Towing/Roadside Assistance Up to US\$450 or Canadian equivalent per occurrence if a defect in material or workmanship prevents the safe and lawful operation of the vehicle.

EPA 07 SERIES 60° AND MBE 4000 ENGINE POWER PROTECTION PLAN AGREEMENT

CONTENTS REFERENCE

- I. INTRODUCTION
- II. KEY TERMS
- III. PROVISIONS
 - A. CONDITIONS
 - B. COVERAGES
 - C. COVERAGE LIMITATIONS
 - D. CUSTOMER RESPONSIBILITIES
 - E. GENERAL PROVISIONS

I. INTRODUCTION

This Agreement describes the coverage provided under the Detroit Diesel* "Power Protection Plan".

The coverage provided is applicable to the product(s) described in the Agreement Registration, a separate document.

All eligible failures, as defined elsewhere in this Agreement, should be reported promptly to the Detroit Diesel Distributor or authorized Service Dealer from whom this Agreement was purchased or, if more convenient, to any other authorized Detroit Diesel service outlet.

II. KEY TERMS

- AGREEMENT PERIOD:** The "Power Protection Plan" coverage will commence upon the expiration of the standard new product warranty and shall extend to the time or odometer (hub meter) mileage limits, whichever occurs first, specified in the coverage selection. Coverage time and mileage limitations are measured from the date of delivery of the product to the first retail purchaser.
- CUSTOMER:** The person, organization or corporation named in the Agreement Registration.
- ELIGIBLE PRODUCT:** The Detroit Diesel engine described in the Agreement Registration. Products eligible for this coverage are new Detroit Diesel Series 60° and MBE 4000 engines used in the U.S. and/or Canada and sold at retail.
- FAILURE:** Any original or Like Replacement Part covered by the Agreement that fails to perform in normal service due to defects in material or workmanship. Original or replacement parts that fail to perform as the result of wear-out are not included under this definition.
- ODOMETER OR HUB METER MILES:** The mileage recorded on an odometer/hub meter (which has not been stopped or changed to lower mileage from actual mileage). In the case of swing engines or an odometer/hub meter that is broken, the actual mileage on the engine is to be determined from accurate and complete service records.
- PARTS:** Parts manufactured by, or for, and distributed by Detroit Diesel.
- QUALIFIED PARTS:** All genuine Detroit Diesel engine Parts except; diesel oxidation catalyst, diesel particulate filter, diesel particulate filter outlet module, diesel particulate filter wiring harness and injector assemblies or fuel injection pumps, high pressure lines and nozzles (depending on engine series), accessories (i.e., generator, alternator, starting motor, air compressor, hydraulic pump, vacuum pump), maintenance items, crankshaft seals, water pump seals, wiring harness and connectors, replacement of pistons, rings and cylinder liners resulting from wearout.
- LIKE REPLACEMENT PARTS:** New genuine Detroit Diesel Parts or remanufactured Parts or components supplied or approved by Detroit Diesel that replace parts covered under this Agreement.
- REPAIR:** The correction by any Detroit Diesel Distributor or authorized Service Dealer during normal working hours of a defect or malfunction in an existing Detroit Diesel Part, or the replacement of that Part using new Parts or remanufactured parts supplied or approved by Detroit Diesel.

III. PROVISIONS

A. CONDITIONS

Detroit Diesel* will repair any defective or malfunctioning Qualified Part(s) of each Eligible Product during the Agreement Period, in accordance with the Agreement Limitations and Adjustment Schedule applicable to the coverage, as shown in Part B - Coverages.

The "Power Protection Plan" provides for conditions resulting from any original or Like Replacement Part covered by the Agreement that fails to perform in normal use and service due to defects in material or workmanship.

B. COVERAGES

COVERAGE FOR SERIES 60° AND MBE 4000 ENGINES

Under the Power Protection Plan for Series 60° and MBE 4000 engines used in on-highway vehicle applications, three options are available.

OPTION 1 - Provides coverage of 100% parts and labor on Qualified Parts that fail, under normal use and service, due to defects in workmanship or material, up to 3 years or 300,000 miles (480 000 km). Coverage and coverage number is shown below:

OPTION 1 (COVERAGE SCHEDULE)				
COVERAGE NUMBER	AGREEMENT LIMITATIONS		ADJUSTMENT CHARGE TO BE PAID BY CUSTOMER	
	YEARS	MILES/KM	PARTS	LABOR
20SE9232	3	300,000 mi 480 000 km	NO CHARGE	NO CHARGE
20SE9233	3	300,000 mi 480 000 km	NO CHARGE	NO CHARGE

OPTION 2 - Provides coverage of 100% parts and labor on Qualified Parts that fail, under normal use and service, due to defects in workmanship or material, up to 4 years or 400,000 miles (640 000 km). Coverage and coverage numbers are shown below:

OPTION 2 (COVERAGE SCHEDULE)				
COVERAGE NUMBER	AGREEMENT LIMITATIONS		ADJUSTMENT CHARGE TO BE PAID BY CUSTOMER	
	YEARS	MILES/KM	PARTS	LABOR
20SE9242	4	300,000 mi 480 000 km	NO CHARGE	NO CHARGE
20SE9243	4	300,000 mi 480 000 km	NO CHARGE	NO CHARGE
20SE9244	4	400,000 mi 640 000 km	NO CHARGE	NO CHARGE

OPTION 3 - Provides coverage of 100% parts and labor on Qualified Parts that fail, under normal use and service, due to defects in workmanship or material, up to 5 years or 500,000 miles (800 000 km). Coverage and coverage numbers are shown below:

OPTION 3 (COVERAGE SCHEDULE)				
COVERAGE NUMBER	AGREEMENT LIMITATIONS		ADJUSTMENT CHARGE TO BE PAID BY CUSTOMER	
	YEARS	MILES/KM	PARTS	LABOR
20SE9252	5	300,000 mi 480 000 km	NO CHARGE	NO CHARGE
20SE9253	5	300,000 mi 480 000 km	NO CHARGE	NO CHARGE
20SE9254	5	400,000 mi 640 000 km	NO CHARGE	NO CHARGE
20SE9255	5	500,000 mi 800 000 km	NO CHARGE	NO CHARGE

Coverage under Options 1, 2 and 3 includes R&R and the replacement of service supplies (i.e. coolant, belts and lubricating oil) when not reusable due to a covered failure.

In addition, progressive damage to any engine part resulting from the failure of a Qualified Part is covered under this Plan

* In Canada, reference is to Detroit Diesel of Canada Limited
20SE92 (0701)



DETROIT DIESEL EPA 07 Series 60® and MBE 4000 "P3" Power Protection Plan Agreement

C. COVERAGE LIMITATIONS

1. The replacement of normal maintenance items as outlined in the Engine Operator's Guide (such as filters, belts, hoses, air cleaners, and fluids) is not covered.
2. Performance of engine tune-up is not included in the coverage unless required with the repair of a Qualified Part.
3. Coverage does not include parts not furnished by Detroit Diesel, or parts furnished by any other manufacturer or equipment supplier as part of the original vehicle or equipment. Examples of such parts may include air cleaners, air cleaner ducting, radiator, radiator connections.
4. Failure due to misuse, negligence, accident, alteration, lack of proper maintenance or the use of parts not approved by Detroit Diesel is not covered under this Agreement.
5. Coverage does not include failure due to chemical corrosion and physical erosion.
6. Coverage does not include repairs or replacement of Qualified Parts performed by other than an authorized Detroit Diesel service outlet, so as to affect adversely, in the judgment of Detroit Diesel, its performance and reliability.
7. Failure caused by fire, theft, freezing, vandalism, riot, explosion, lightning, earthquake, windstorm, hail, water or flood is not covered under this Agreement.
8. Coverage does not include failure covered by a repairing outlet's guarantee, loss of time, loss of use of the product, towing, inconvenience, lodging, food or other consequential loss that may result from a failure.
9. Cylinder liner, piston and piston ring failures attributable to wear-out are specifically excluded from this Agreement.

The wear rate of parts in any engine, and especially those parts within the combustion area, will vary depending on operating conditions and environment. Conditions such as load, trailer configuration, road speed and road conditions, as well as the quality of air, fuel, lube oil and lube oil filters bear a direct relationship to the wear rate and resulting life of parts.

Depending upon the severity of these various conditions, parts wear and resulting failure could occur within the limitations of this coverage.
10. Coverage does not include travel time and mileage or overtime.
11. Coverage does not include performance complaints (including but not limited to low power, poor fuel economy etc.) unless caused by the failure of a Qualified Part.

D. CUSTOMER RESPONSIBILITIES

1. The owner is responsible for the performance of regular maintenance services as specified in the Engine Operators' Guide.
2. In the event of a failure, a customer must:
 - a. Use all reasonable means to protect the product from more damage.
 - b. Notify any authorized Detroit Diesel service outlet, as soon as possible.
 - c. Present proof of coverage to the authorized repairing outlet (Agreement Registration form).
 - d. Provide Detroit Diesel with any information required. If requested, the customer must provide DDC the failed material for inspection.

E. GENERAL PROVISIONS

1. This Agreement will terminate when the customer sells or loses possession of the product.
2. "Power Protection Plan" coverage which has been purchased at retail by the original owner may be transferred to subsequent owners of the product. The coverage transferred is limited to the time remaining on the unused portion of the coverage. To determine eligibility for transfer refer to the Agreement Registration form.

In cases where the coverage was originally purchased without transferability the coverage can be transferred for a fee of \$500.00 (U.S. \$).

In order to have a valid transfer, the owner must supply the subsequent owner with his copy of the Agreement Registration form. The new owner must complete the Transfer of Coverage portion of the Agreement Registration within ten days, and forward the Agreement Registration along with a check or money order, if applicable directly to: Detroit Diesel, 13400 Outer Drive, West Detroit, Michigan 48239-4001 - Attn: Warranty Administration, "P3" (BX5).
3. The previous owner shall transfer to the new owner, all available service records, repair orders, and other such related documents.
4. This Agreement applies to a failure of Qualified Parts on eligible Series 60® and MBE 4000 engines operated in the U.S. and Canada.
5. Like Replacement Parts or engines used to replace Qualified Parts under warranty or the Detroit Diesel "Power Protection Plan" will assume the identity of Parts replaced and be entitled to the remaining coverage, except as limited under "Coverage Limitations" (Sect. III-C).
6. Repairs under the terms of this Agreement will be performed during normal working hours at any authorized Detroit Diesel service outlet's place of business.
7. The coverages which vary, depending on the engine series and applications, can be purchased by the retail purchaser at the time of sale or within ninety (90) days of delivery, from any authorized Detroit Diesel service outlet.

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