

VENDOR

TITLE

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

## Request for Quotation

7011EC18

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7.35.	ADDR	ESS CORRE	SPONDEN	CE TO ATT	ENTION OF

BUYER 33 304-558-2402

\*709035314 304-485-4410 MATHENY MOTOR TRUCK COMPANY PO BOX 1304

PARKERSBURG WV 26102-1304

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

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ADDRESS CHANGES TO BE NOTED ABOVE

## GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.

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- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the Legislative Rules of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mulual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
- 14. 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. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.
- 75. 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, and the West Virginia Insurance Commission. 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.
- 16. ANTITRUST: In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

### **INSTRUCTIONS TO BIDDERS**

- 1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
- 2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications. Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
- 5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



TITLE

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

## Request for Quotation

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O I L K	JJ
<u> </u>	58-2402

304-558-2
DIVISION

OF HIGHWAYS **EQUIPMENT DIVISION** ROUTE 33 BRUSHY FORK ROAD BUCKHANNON, WV 26201

304-472-1750

ADDRESS CHANGES TO BE NOTED ABOVE

**\*709035314** 304-485-4410 MATHENY MOTOR TRUCK COMPANY PO BOX 1304 PARKERSBURG WV 26102-1304

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston WV 55005 2400 Charleston, WV 25305-0130

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PARKERSBURG WV 26102-1304

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

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**\*709035314** 304-485-4410 MATHENY MOTOR TRUCK COMPANY PO BOX 1304 PARKERSBURG WV 26102-1304

DATE PRINTED TERMS OF SALE SHIP VIA F.O.B FREIGHT TERMS 03/17/2011 BID OPENING DATE 04/21/2011 BID OPENING TIME 01:30PM LINE QUANTITY: UOP ITEM NUMBER UNITPRICE AMOUNT 05/04/11 DAITE NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTE WITH THE BID. REV. 09/21/2009 EXHIBIT 2 LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS 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. UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT. 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. THE DIRECTOR OF PURCHASING RESERVES THE CANCELLATION: SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE



VENDOR

SIGNATURE

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

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EQUIPMENT DIVISION

ROUTE 33
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\*709035314 304-485-4410 MATHENY MOTOR TRUCK COMPANY PO BOX 1304

PARKERSBURG WV 26102-1304

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TELEPHONE

DATE

ADDRESS CHANGES TO BE NOTED ABOVE



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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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DIVISION OF HIGHWAYS **EQUIPMENT DIVISION** ROUTE 33

BRUSHY FORK ROAD BUCKHANNON, WV

304-558-2402

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**\*709035314** 304-485-4410 MATHENY MOTOR TRUCK COMPANY PO BOX 1304 PARKERSBURG WV 26102-1304

**FREIGHT TERMS** DATE PRINTED TERMS OF SALE SHIP VIA FOB 03/17/2011 BID OPENING DATE: BID OPENING TIME 01:30PM 04/21/2011 CAT NO UÓP AMOUNT LINE QUANTITY ITEM NUMBER UNIT PRICE REV. 5/2009 EXHIBIT 4 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 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 SUCH REFUSAL CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER. REV. 3/88 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 THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

TELEPHONE



BOOKER

TITLE

\*709035314

PO BOX 1304

PARKERSBURG WV

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

MATHENY MOTOR TRUCK COMPANY

304-485-4410

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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-F

64,000 GVW CAB AND CHASSIS, STAINLESS STEEL COMBINATION DUMP/SPREADER MUNI BODY, AND PISTON PUMP HYDRAULIC SYSTEM

NOTE TO BIDDER: Procurement Specification No. 377-2-F, 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 a summary of exception as a separate attachment, 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.:		
	Bidder's Name: MATHENY MOTOR TRUCK COMPANY		
	Address: PO BOX 1304 PARKERSBURG WV 26102-1304		
	Telephone Number: 304-485-4418		
	Years Bidder has been registered to do business with the State of West Virginia:	89	YRS
	Years Company has been an authorized dealer for proposed unit:	4	YRS
₹3.2	Have you complied with all mandatory specifications? X YES NO		
	DELIVERY:  Delivery date of completed representative unit: 120 Calendar D  Receipt of Purchase Agreement by s		vendor
X4.2.2	2 Guaranteed delivery date of balance of completed units: 240 Calend Receipt of Purchase Agreement by s	ar Days Af successful	fter vendor
	NOTE: Vendor should type Bidder's Evaluation Report		

The "Bidder's Evaluation Report" is available for download on Purchasing's Web site at www.state.wv.us/admin/purchase

X5.0	AWARD CRITERIA;
X5.1	Price per completed unit including minimum 2 year bumper to bumper parts and labor warranty:  \$155,996.00per unit
	If a 3 year bumper to bumper basic parts and labor warranty excluding normal wear items and misuse is available, please state price for completed unit:  INCLUDED ABOVE per unit  SEE ADDENDUM #2
	SPECIFICATIONS - GENERAL  Manufacturer, model, series, and date of manufacture of proposed unit:  FREIGHTLINER, 114SD, M2, 3rd QTR. 2011 FOR PILOT  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

4 :

X6.2 2-10-00

### EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH.

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VENDOR (	CONTACT PERSON	· ·		PHONE:			
PARTS:							
BATTERY	MAKE:		MODEL:		CCA:	HEIGHT	
TOP OR S	IDE POST:		DIMENSIONS	ELENGTH	WIDTH	HEIGHT	
SPARK PI	LUGS OR FUEL INJE	CTORS MAKE:		PART#	<u></u>		
FUEL PUN	MP OR INJECTION P	UMP MAKE:		MODEL:			
ALTERNA	ATOR MAKE:			PART#.			
ALIMBU C.	HARGER MAKE			PART #:			
TRANS N	/AKE:	MOD	EL:		AUTO/MANUA	\L:	
HYDRAU	LIC PUMP MAKE: _			MODEL:		AL:	
	MAKE				MANUFACT		
OIL			ENG	INE			
AIR INNE	ER		TRA	MSWISSION			
AIR OUT	ER		POW	ER STEERING			
FUEL PRI	IMARY		HYD	RAULIC			
FUEL SEC	CONDARY			ERENTIALS _			
COOLAN	T					<u> </u>	
	ILIC						
OTHER			OTH	EK			

<b>X</b> 6.3	TRAINING:
	Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training
	Will you conduct training with each purchase order against this open end contract?  _X_YESNO
	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 Training Academy prior to the delivery of the pilot?  YES NO
<b>X6.4</b>	If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training?  YES NO
X6.4.1	Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit?  If NO, explain  SEE ADDENDUM #2
X6.5	WARRANTY AND SERVICE POLICY Will the warranty and service you provide comply with all areas as stated in Section 6.5 of specifications
	Is warranty literature attached? YES NO
	Is a minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items included?  Describe:  SEE ATTACHMENT & ADDENDUM #2
	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.
	ONE HOUR EQUALS 39 MILES
	SEE ATTACHMENT FOR EXTENDED WARRANTIES

## **X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE**

# THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID. (If additional lines are needed, make copies of form.)

1. Def	ine the terms of the star	ndard warranty. If not offered, so state. (Attach copy) IPER TO BUMPER ON CHASSIS & BODY
		IMITED MILES ENGINE WARRANTY
	SEE ATTACH	
manuf	acturer's representative	be performed at DOH facilities and warranty service to be performed at facility. List name and location of manufacturer's representative.  ANTY WORK AS LONG AS THEY MEET FREIGHTLINER'S
TRAIN	NING, TOOLING &	WARRANTY PROCEDURES.
MANUE 3 List	ACTURER'S REPRE	SENTATIVE: JOE MANZIONE, CRANBERRY TWN, PA entories that are within the State of West Virginia. Also, list availability levels, if
known	l.	CO., MINERAL WELLS, WV - \$1.8M
		WAYNE COUNTY, WV - NOT KNOWN
110003	· LIGHT ON THE THE	WAINE COUNTY, WV - NOT KNOWN
4. Duri bidder	ng the term of warrant will sell the parts to ow	y, list the guarantee discount to manufacturer's published list price for parts that vner.
A.	Terms: Net 30	Manufacturer's published list price less: 25 % discount
B.		Manufacturer's published list price less: 20 % discount
C.	Terms: Net 90	Manufacturer's published list price less: 15 % discount
5. Duri Highw	ng the term of warrant ays?	y, will all manufacturers or engineering improvements be submitted to Division ofXYESNO
6. Duri	ing the term of warrant	y, list the guaranteed rates charged for repair to the unit.
A.	Shop Rate	\$ 90.00 per mechanic hour
B.	Travel Time Charge (Specify if one-way)	\$ 90.00 per mechanic hour ; port to port x
C.	Mileage Charge (Specify if one-way	\$ NONE per vehicle mile ; port to port
D.	Field Mechanic Rate	\$ 90.00 per mechanic hour
E.	Specify period of time	that prices are in effect: 12 MONTHS
F.	Surcharge for miscella	aneous items: 15 %

X6.6	EVALUATION COMMITTEE REQUIREMENTS
	Is all component specifications, product literature, component models provided for Evaluation Committee bid determination?  YES NO
<b>X6.7</b>	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?
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?  XYESNO
X6.7.2	Are all standard safety features that are required by Federal and State statutes of law included?  XYESNO
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: FREIGHTLINER . Model: M2114SD
	Will a minimum 2 year basic bumper to bumper warranty including parts and labor be furnished? SEE ADDENDUM #2 X YES NO
X8.1	GVWR Rating: 64,180 Lbs.
X8.2	Cab to Axle Dimensions: 126 Inches usable
X8.2.	After frame length: 64 Inches
X8.3	Wheelbase: 240 Inches and is set forward design for snowplow application for various plows X YES NO
X8.3.	Have you adjusted wheelbase and CA dimension to provide the optimum legal weight distribution?  X YESNO
X8.3.	2 BBC (Bumper to Back of Cab) <u>114</u> Inches excluding frame extension

<b>X8.4</b>	Frame:  Does the frame meet or exceed all Federal requireme beyond the grille a minimum of 14 inches?	ents for GVWR specified that extends forward  X YESNO
X8.4.1	Frame material 120,000 PSI yield strength	th. Is frame extension a "parent rail" material?  X YES NO
X8.4.2	RBM: $\frac{3,217,200}{}$ million Ins/Lb. per rail	Is an integral frame and frame extension Included X YES NO
X8.4.2	.1 Where engine and radiator adjustments as (RBM).	are required, 3,217,200million in lb. per rail
X8.4.3	Is main frame and any required liners X stra	aight channel or offset channel, full length
X8.4.4	Is frame RBM approved by manufacturers En	<u> </u>
•	Is it bolt on or welded extension?	YES NO YESX NO
X8.4.5	Does front frame accommodate the Departme pump, and the plow frame?	ent's standard hydraulic PTO shaft andXYESNO
	Does it provide easy service accessibility?	X_YESNO
X8.4.5	.1 Front frame mounted tow hooks	X YES NO
X8.4.5	.2 Has the factory installed front bumper to	be omitted X YES NO
X8.5	Cab:  Manufacturers standard steel, aluminum and/or fibergla interior trim with inside noise level rating not to exceed	
	Ambient temperature display for outside temperature	re <u>X</u> YES NO
	Is hood a tilt hood	xYESNO
	Fenders steel and/or fiberglass	X YESNO
	Is rear air bag suspension provided	x YESNO
	Are inner fender panels adequate to keep materials from	m engine compartment x YES NO

X8.5.1	Cab door locks, both doors, keyed alike	X	YES	NO	• • • • •
X8.5.2	Dual sun visors	X	YES	NO	
X8.5.3	Arm rests, both sides	X	_ YES	NO	
X8.5.4	Seats: Fully adjustable air ride high back with head hand sides		cloth cover _YES		hand and right
	Clearance between seats 20 inches				
X8.5.5	Floor mats: Rubber floor mats throughout cab area		non-absorb YES		under mats
X8.5.6	Turn signals: Manufacturers standard with hazard	warniı	ng switch _	_x_ YES _	NO
X8.5.7	Heater and defroster: Fresh air type, heaviest duty		_ YES	NO	
X8.5.8	Windshield wipers and washers: Manufacturer's he feature with manufacturers largest reservoir filled v	vith ar	•	pe solvent	intermittent
X8.5.9	Instruments: Are all instruments dash mounted exc		here specif YES		e?
	Are all standard instruments supplied, including bu	t not l	_	ne following:	
X8.5.9.1	Coolant, oil pressure gauges, to have both d visual alarm to warn operator when safe op-	lial tyr erating	e readout a	and either an	
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 speedome SEE EXCEPTION REPORT		ads made a YES		
X8.5.9.5	Primary air pressure gauge	X	YES	NO	
X8.5.9.6	Auxiliary air pressure gauge Is it combined with primary air pressure ga	X uge_X	YES YES _	NO NO	
X8.5.9.7	Air filter manufacturers heaviest duty dual extended engine warranty	eleme X	nt type tha YES		quirements of

<b>X8.5.9.8</b>	Does unit have front air intake YES X  Is an air actuated or cable control valve provided to ena intake to engine compartment while in snow plowing ap YES	ble op plicati	erator to ion	divert air
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	x	YES	NO
X8.5.9.13	Manufacturers best sound/weather insulation package for pa	ropose X	ed cab _ YES	NO
X8.5.9.14	Outside temperature control with in cab digital read out	X	_ YES	ИО
X8.5.10 X8.5.10.1	Rearview Mirrors:  West coast type power adjustable with convex spot mirror	X	_YES	NO
	Size: 16.75"x5.1" PLUS CONVEX MIRROR SEE	EXCE	RPTION	REPORT
X8.5.10.2	Both mirrors heated type with stainless steel <u>composed</u> x or aluminum hardware X with corrosion resistant fasteners	nce, he	X power eads, and _ YES	
X8.5.11	Grab Handle: Right hand and left hand sides, internal or external nopening	nounti X	ng to rear _YES	of door NO
•	Are inside handles featured X YES NO Is one (1) outs handle with non-slip insert for bed aggregate inspection furnis			
X8.5.12	Air horns, with snow shields if cab mounted, with adequate cleara body dump cab protector	nce fo	r future ir YES	nstallation of NO
v	Does it have single air horn used without snow shield if mounted a hood	downv	vard on fr YES	ame rail under XNO
X8.5.13	Unit includes lockable hand operated throttle control or electronic down for hydraulic flow rate		ol for idle YES	
X8.5.14	Will manufacturer provide for stationary grille or grille with cutou clear snow plow mount	nt area	to allow YES	tilt hood to NO
	Is stone/gravel guard provided	X	_ YES _	NO
X8.5.15	Air conditioning: Manufacturers fresh air type heaviest duty with including replaceable fresh air filter	APA X	DS or equ YES	nal RCD system

X8.5.1	6	Radio: AN	/I/FM ster	eo with w	eatherband 1	radio feature		X	YES	<del></del>	NO
X8.5.1	7	Glass: Ma	nufacture	rs tinted s	afety glass (a	all locations)		X	YES		NO
X8.5.1	7.1	Du	al power	windows				X	YES_	e <b>rri</b>	NO
X8.5.1	8	Manufactu	ırers engir	ne cover (	or dash mour	nted extended	two (2) cı		holder YES _		.NO
X8.5.1	9	Front mud	flaps man	ufacturer	s standard fo	r unit bid		X	YES_		NO
X8.5.2	0	Emergenc	y triangle arer & Mo	warning GRO	kit, with hold OTE IMPSONITE	d down stowed 71422 130 CO 1005	d (fastene	d) in the	cab YES_ EXCEP	TION	NO i report
X8.5.2	1	Manufactu OR	arers tilt st and opera	eering co		ruise control f		X			NO
X8.5.2	2	200688				icle mount. M			for eas		
X8.5.2	3	cab	ccessorie			e but are incl	uded in t	he man	ıfactur	er's s	tandard
X8.5.2	4.	-				ou provide W roposed unit.			plete li YES		
X8.6	Engin Is eng		X	_YES_	NO	12.8	liter				
	Peak l	HP 410	at _	1800	_ RPM	Torque_	1450	_ lb ft. :	at	40	_ RPM
	Is eng EPA o		ant and c	ertified t	o meet US I	EPA 210 Emis		ndards			g Federal
	Manu	facturer: _	DETROI	T DIES	EL	M	odel:DD	13			
X8.6.1		Will engin	ne manufa	icturer ma	ake provision	ns for front mo	ounted hy	draulic J X	oump to _ YES	cran	kshaft _NO
		Manufact	urer & Me	odel: SF	PICER 135	0					

X8.6.1.1	In block engine heater 1500 watt	X_	YES		_NO
X8.6.1.1.1	Is electrical cable from the heater to plug one piece side under driver door		aterpro _YES_		
X8.6.1.2	Fuel heater/water separator provided inside of engine comp		nt YES	X	NΟ
	Manufacturer: ARTIC FOX SEE EX	CEPT	ION R	EPOF	_11O
X8.6.1.2.1	Engine fuel system equipped with primer pump	X	_YES .		NO
X8.6.1.3	Exhaust:				
X8.6.1.3.1	Single vertical exhaust pipe with underbody muffler noise abatement requirements				
	Exhaust to the passenger (right) side of unit	<u> </u>	YES .		NO
X8.6.1.3.2	Is tail pipe shielded or insulated to protect personentering or exiting the cab		rom bu _YES		
	The shield is <u>180</u> degrees to <u>360</u> degrees and o such as stainless steel or aluminum				
	Manufacturer: BURGAFLEX	EE EX	XCEPT —	ION	REPORT
X8.6.1.3.3	Exhaust pipe with rain cap or exhaust turn out	X_	_YES	• • • • • •	_NO
X8.6.2	Jacob's Engine Brake X Cummins C-Brake Mack Pocompression and exhaust X or equal	wer I	_eash _		-
X8.6.3	Are engine components facing wheel areas, on both sides, and the shielded by means of rubber skirts supported by easily removable s	steel ro			f wheels
X8.6.4	Engine oil pan is zinc nickel plated aluminum or non	-corro	sive co	ated_	X
X8.7 Clutch X8.7.1	n: THIS SECTION WAS ELIMINATED BY ADDENDUM #2 Externally lubricated and manually adjusted with torque limiting c		brake	NO	
X8.7.2	Clutch adjustment set to specifications prior to delivery to the Dep		nt	NO	
X8.7.3	Is clutch dual plate ceramic clutch YES NO				
	Size: inch Kwik adjust (manual feature)		_YES		NO
	Manufacturer and model: with 7 spring	damı	ner .	YES	NO

X8.7.4	Does clutch meet or exceed peak engine torque		YES _	NО		•
	ling System: Is it capable of maintaining engine temperatu mmended range during continuous operation			e manufac _YES		
X8.8.1.	Does the system incorporate a thermostat and bypass for wa	arm up	, <u>X</u>	YES	NO	
	Is it filled with permanent type Dex Cool extended life o -30° F or lower			reeze rate NO		
	Is it a low silicate type antifreeze for diesel engines only	X	_YES_	NO		
X8.8.2	Is it the largest factory available engine cooling capacity contransmission referenced and for continuous high engine out and/or operating conditions due to prolonged snow plowing	put un g opera	der ext ations i	reme temp	eratures	
X8.8.3	Is unit fitted with provisions for visually monitoring coolan cap from the radiator or expansion tank			essitating r	removal o	f the
X8.8.4	Does the radiator mounting provide adequate clearance crankshaft driven PTO drive shaft			the install		a
X8.8.5	Distance between the extreme tip of the radiator fan bla crankshaft to insure adequate clearance for PTO drive					
X8.8.6	Radiator and heater silicone hose manufacturer and mo	odel: _	GATES	BLUE S	TRIPE	
X8.9 Fuel	Tanks:					
X8.9.1	Safety type aluminum fuel tanks as required by FMVSS	X	_YES	NO	•	
X8.9.2	Single aluminum usable: 110 U.S. gallon; fram	ne mou	ınted_	X YES	N	C
X8.9.3	Driver and passenger entrance steps-grated self cleaning sa	afety s	tep <u>X</u>	YES	NO	
X8.9.3.1	Are all edges banded (skirting) on the outer perime	ter	X	YES	NO	
X8.9.3.2	Top of first step above ground: 15.7 inches	3				
<b>X8.9.4 X8.10</b> Elec	Is a fuel draw system provided that meets all Federal 2 etrical System:	010 er		standard		
X8.10.1	Type: Manufacturer's 12 volt negative ground system wit Suppression	th man		ers radio ir YES		·e
X8 10 1 1	Circuit breaker equipped, in easily accessible locat	tion, w	eatherr	proof X	YES	N

X8.10.2	Three (3) or four (4) _X heavy duty - 12 volt batteries, maintenance free with sealed terminals X YES NO
X8.10.2.1	Reserve capacity: 780 minutes @ 80 degrees F
X8.10.2.2	Cold crank AMPS: 4,500 total @ 0 degrees F
X8.10.3	Alternator capacity: 160 AMPS with internal regulator X 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  X 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
X8.10.6	Auxiliary snow plow/salt spreader lighting package X YES NO
X8.10.6.1	Will truck vendor provide rear tail lights YES _X NO
<b>X8.10.7</b>	Truck vendor will provide4 feet of wiring bundled at the end of the frame for body vendor hook up of tail lights and etc. in the dump bed bodyX_YESNO  Will manufacturerX or successful vendor make provisions for manufacture
	approved wiring and weatherproof disconnect plug X YES NO
	Manufacturer and Model: WEATHER PAC 1530027 SEE EXCEPTION REPORT
	seven (7) pin connector X YES NO with 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
	Manufacturer and Model: PHILLIPS (J560) 15720 SEE EXCEPTION REPORT
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 integrityX_YESNO

X8.10.7.4	Has manufacturer provided body builder circuits – thr	ee (3)	switches		
	•	• •	_ YES _	NO	
	located in the dash instrument panel with one (1) weath	_		•	•
	connection box or module located at the rear under cal	) <u>X</u>	_ YES	NO	
	* amps per channel, amp maximum output				
	*SEE EXCEPTION REPORT		YES_	NO	
	"SEE NACAPITON REPORT				
	Do dash switches control the power module with LED bac	klight	ing X	YES	NO
Do li rear	er Train Overview: ubricants for front axle hubs and differentials, automatic transm differentials meet or exceed all appropriate MIL and SAE speci	ficatio	ns for syn	thetic	all
lubr	icants		_YES	NO	
all pl	ugs identified as synthetic or painted red	X	YES	NO	
X8.11.1	Transmission: ALLISON 4500 RDS 6-SPEED				
	transmission oil cooler <u>×</u> YESNO				
X8.11.1.1	Does transmission torque capacity meet or exceed spec			-	
370 10 Dul	-11	X	_YES_	NO	
X8.12 Drive X8.12.1	Manufacturer and Model: MERITOR 18N MAIN; 17T INTE	RAXL	E		
X8.13 Rear X8.13.1	Axle:  Manufacturer and Model: MERITOR RT-46-160P				
X8.13.2	Is each unit equipped with driver controlled main locking differer that is manually cab controlled		forward a YES		<b>;</b>
X8.13.3	Ratio: Does gear ratio determined give the vehicles the capability approximately 70 MPH		op speed o YES		
	If not 70 MPH, please specify 69.7 MPH		·		
X8.13.4	Is housing aluminum or other lightweight material	******	YES	x_NO	
X8.13.5	Rear wheel seals: SKF SCOTSEAL PLUS XL	SEE	EXCEPT	ION REPO	DRI
X8.13.6	Drain plug, magnetic	_X	YES	NO	
X8.14 From 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 adequate lubricant penetration		grease groo YES	
X8.14.3	Are spring hangers heavy castings with sufficient pin and bearing service		e to render t	
X8.15 Rear st	uspension: HENDRICKSON			
X8.16 Front A <b>X8.16.1</b>	Axle: Capacity: 20,000 lbs.			
X8.16.1.1	Does the front axle, drag links, and tie rods have grease ze		talled _ YES	NO
X8.16.2	Heavy duty shock absorbers	<u>X</u>	_ YES	_NO
X8.16.3	Oil lubricated front wheel seals X YES NO Manufactu		N	
X8.16.4	Does unit provide adequate tire clearance at maximum turni		EXCEPTION ES X YE	
X8.17 Brakes X8.17.1.1	Type: Full air, with manufacturers ABS in compliance w requirements		most curren X YES _	
X8.17.2	Compressor: Manufacturer and Model: BENDIX BA-921	19.	O cu. ft.	
X8.17.3 X8.17.3.1	Service Brake Size:  Front: 16.5" x 6.0"  disc brake system providing equal performance	'S'' cam	X OR p	ower front
X8.17.3.2	Quick change type single OR double anchor pin if	drum t	ype brakes _	X
X8.17.3.3	Rear:16.5" x 7.0"	ith quic	k change ty	pe single
X8.17.3.4	Are all brake chambers sealed brake chambers with epox Chambers		or coat on f	
	Manufacturer: HALDEX			
X8.17.4	Do drum brakes have automatic slack adjusters and are clearance adjustment on application of the brake		g type only YES	
X8.17.5	Parking Brake: Rear wheel spring type severe service spring br	rakes	X YES _	NO
	Manufacturer and Model: HALDEX GOLDSEAL			
X8.17.5.1	Does parking brake provide modulated emergency braking of a rear service system failure		he foot valv YES	e in the event NO

<b>X8.17.6</b>	Air dryer with heater 21+ inches above road service						
	Manufacturer and Model: BENDIX AD-9						
	with spin on desiccant cartridge or equalX YESNO						
	Is the installation made in concurrence with the air compressor		urer's reco		tions		
			_ 125				
X8.17.6.1	Are all electrical connectors for drain valve and air drye material or have sealed connections		with heat YES				
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	ed to pro	vide adequ	ate cleara	ance		
	for tire chains and backing into bituminous paving machines	X	_YES	ИО			
	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						
	<i>g</i>		YES				
X8.17.11.1	Are glad hands recessed as not to stick out past the e			NO			
X8.18 Tires	and Wheels:		_ YES	NO			
X8.18.1	Truck equipped with hub piloted steel disc wheels for tubel	ess tires	X YE	S S	Ю		
X8.18.2	Wheel end equipped with outboard cast brake drums	X	_ YES	NO			
	15 degree tubeless steel wheels, hub piloted, 10 hole – 285.75m two-piece flange nuts		ircle with 2 YES				
X8.18.3 X8.18.3.1	Front:  Wheels: Size: 22.5" x 9.0"  10 hole 285.75 mm bolt circle with 220 mm bore, tubel-	ess steel	discX	YES	_NC		
,	Rated at 10,000 lbs. at a maximum inflation pres	ssure of	130 PS	IG.			
	Manufacturer and Model: ACCURIDE 29039			-			
	With 0.500 inch thick disc, non standard off set with ste	eel hubs	X YES	N	O		

	-	Powder coated _	X YES.	NO Gra	ay top coat _	YES	NO
X8.18.3.2		Tires: 315/80R	22.5	PI	y <u>20</u>		
X8.18.4 X8.18.4.1	Rear:	Wheels: Size: 2 10 hole - 285.75			 ım bore, tubo	eless steel disc X_YES	
		Rated at 7500	lbs. at	a maximum i	nflation pres	sure of 120	PSIG
		Manufacturer and	l Model: _A	CCURIDE 28	828		<del></del>
		With 0.472 inch t	hick disc			_xYES	NO
		Powder coated	<u>X</u>	YESN	O Gray top	coat X YF	ESNO
X8.18.4.2		Tires: <u>11R22.5</u>	1,500,000,000,000				
X8.18.4.3		Does the dual re permits the use of			ve clearance	between the t	
X8.18.5	All wh	eels have wheel s	eparators			X_YES	NO
X8.18.6	Radia	l Tires:					
	Front	Radial Tire: Man	ufacturer an	d Model: GOO	DYEAR G29	1	
	Rear I	Radial Tire: Manı	ıfacturer and	l Model:	DYEAR G28	2	
X8.19 Steen	ring:			•			
		steering: Dual int ght wheel power-a	tegral <u>X</u> Issist cylinde	OR single inte er	egral type	hydraulic p xYES	ower steeringNO
X8.19.2	Steerin	ng system: (flow, p	oressure, reli	ef valve etc): _	VAN TYPE		
	Manuf	facturer: TRW	·				
X8.19.3	Hydra one (1	ulic supply pump: ) steering wheel re a "park" condition	Vane type _evolution per	X OR roller	type wit		acity, with plow
	Manut	facturer and Mode	l: TRW			<u> </u>	
X8.19.4	Is the	pump the integral	filter type u	nit		YES	_xNO

X8.19.5	Power steering reservoir: "Remote mounted"	X	_YES	NO
	Capacity: 4 qt. Filter is easy to remove and replace	X	_YES	NO
X8.19.6		proved		ction with the
X8.20 Fea	tures considered as standard equipment but not addressed:			
SEE	E LITERATURE			
	nt: Describe proposed method of painting:			
PEF	R BID REQUEST	<del></del>		···
X8.21.3	Wheel Paint: POWDER PAINTED PER BID REQUEST			
X8.22 Deta	ail/Decorative Stripes with Logo:			
X8.22.1	Width: 2 inches			
X8.22.2	Will WVDOH logo area comply with 8.22.2 of specification	X_	YES	NO
X8.22.3	Does conspicuity striping material provided meet requirement 8.22.8 of specification		ection 8.22 YES	_
X8.22.4	Does sheeting meet specification as stated is 8.22.4 x YES _	N	10	
	Does it come with aggressive high tack pressure sensitive adh Manufacturer: REFLEXITE	esive	X YES	NO
X8.23 Doe	es unit offered meet or exceed "Occupational Safety and Health A		970" NO	
X8.24 Doe	es unit conform to the advertising guidelines	_YES	NO	
X8.25 Prev X8.25.1	ventive Maintenance and Operator's Training School SEE ADDER Will a preventive maintenance and operator's training seminar be			ESNC
	Manuals X (OR) CD			
X8.25.2	Will booklets and pamphlets be furnished to be used by the operation	ators	X YES _	NO
	Describe agenda IT WILL BE PER BID REQUEST & IN	ADDI	TION WE	WILL
X8.25.3	CONDUCT A HANDS ON VEHICLE WALK AROUND.  Will you furnish all training aids; i.e. videos, projectors, etc.  training	_	ed in cond	lucting the

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

Bidder:

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:West Virginia Tractor Company
	Address: P.O. Box 473 Charleston, WV 25322
	Telephone Number:304-346-5301
	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:
	Swenson APB 14.5 FT 201 SS 2011 and later as ordered
	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?x prior to deliver of unit or
	Does the combination dump/spreader body have a minimum two (2) year basic bumper to bumper Warranty including parts and labor?x_YESNO
X9.1	Body capacity:14 cubic yards water level
X9.2	Sideboard pockets and tailgate height provides additional capacities of _2 to _5 cubic yards
X9.3	Front body bulkhead7_ gauge Size: _3/16 inch201_ stainless steel
X9.3.1	Is head sheet vertical _xYESNO
X9.4	Does cab shield have sufficient clearance to ensure shield will not hit exhaust when dumping on uneven Terrainx_ YES NO
X9.5	Two (2) front truck frame mounted tow hooks or eyes accessible through bumper_DNA YES NO SEE ADDENDUM
X9.6	Dimensions:
X9.6.1	<del>*                                    </del>
	19

	A ¼ inch thick 201 stainless steel fish plate is welded to above the rear hinge	utsid x	le surface YES	outside long	g sill
	with overall combined height of 12.5_ inches including in		al stainles _ YES		
	Outside formed long sill of 7 gauge 201 stainless steel	_x	_YES	NO	
X9.8.6	Is inside formed longitudinal constructed of ¼ inch 201 s	stainl _x		NO	
X9.8.5	Cab protector:10_ gauge _201_ stainless steel				
X9.8.4	Top rail:7 gauge _201_ stainless steel				
	Tailgate plate:7 gauge201_ stainless steel				
	Sides:7 Gauge 3/16_ inch thickness 201 stainless	s stee	1		
	OR abrasion resistant AR400_x_ 3/16_ inches thick				
	Floor: inch thickness 304 stainless				
	Construction of the body sides, front, head, and tailgate:  Steel types:201 Stainless Steel				
		x_	_ YES	NO	
X9.6.8	mounted air horns				)
	Body overhang:12 inches (measure from center o	f hin	ge pin)		
X9.6.6	Tailgate height:52 inches (measure from the floor	r to to	op rail)		
	Two (2) dirt shedding horizontal 10 gauge 201 stainless stee	el side		each side of YESN	
X9.6.5	Basic side height:44 inches (measure from the flo	or to	top rail)		
X9.6.4	Body spacing from cab4 inch				
X9.6.3	Outside width of body:96 inches at the integral to	fende	rs		
X9.6.2	Inside width of body:86 inches wide to maxim gravity	nize c	apacity and	d lower the c	enter of

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	X	YES	NO
X9.11	Cab protector sides, formed with gussets, extending forward24i	inches		
	Clearance above highest point of cab is6 inches		·	
X9.12	Is body a unibody design – no crossmembers	x	YES	NO
X9.12.	Does the body have one (1) piece sides constructed of 7 gauge 2		nless steel YES	NO
X9.13	Floor constructed of 3/16_ inchAR400 (steel) with5_ inch		floor to side	
X9.15	Is there an integrated center conveyor providing the ability of the bod materials with the body down		nvey granu YES	
X9.15.	1 12.5 inches truck frame to body floor height for lower center of graheight		d lower mo	
X9.15.	1.1 Will wood products be used between truck frame and bed		YES _x_	NO
X9.15.	2 Abrasion resistant steel 3/16 inch AR400 conveyor floor	x	YES	NO
X9.15.	2 inch diameter front and rear shafts with eight (8) tooth sprockets	x	YES	NO
X9.15.	4 Drive sprockets are double keyed to shaft	x	YES	NO
X9.15.	5 Conveyor width: _34 inches			
X9.15.	6  /4 inch 201 stainless steel formed inner sill which also forms the		yor chain g YES	
X9.15.	7 gauge 201 stainless steel formed over long sills	x	YES	NO
X9.15.	8 3/16 inch AR400 conveyor bed floor See ADDENDUM	DNA	YES	_NO
X9.15.	Formed _3/8_ inch thick tie plate fully extend between the left and rear of unit	_	ide of body, YES	
•	Will tie plate provide additional structural support at the rear sagging at the rear corner posts		body tó prè YES	vent NO

X9.15.10	Are there two (2) inch diameter drive shafts with eight (8) tooth sp	rocket	s	
			_YES	NO
	Will sprockets be heat treated to 50 Rockwell C hardness	x_	_YES	NO
X9.15.11	Will conveyor be driven with 25:1 planetary gearbox drive on the _8.0_ CIR hydraulic motor		aft with a _YES	
	Will motor have an integral conveyor speed sensor	x_	_YES	NO
X9.15.12	Conveyor chain _D667K pintle type ( lb. tensile/strand	) with		
	_1/2_ inch x 1.5 inch conveyor crossbars spaced on every other		k. _YES	NO
X9.15.13	A _10 gauge _201_ stainless steel bolt in pan under the conveyoner frame		eep mater	
X9.15.14	Does the rear apron have a bolt on cover plate which allows fo		access to _YES	-
	ilgate have 7 gauge 201 stainless steel full perimeter dirt shredding be stainless steel 9 inch x 24 inch fully adjustable rear feed gate			
X9.16.1	Is rear feedgate lever operatedx or screw adjustable 7 positively locked into position		edgate cap YES	
X9.16.2	Is tail gate hinged at top, flame cut hardware, pork chop type off-s maximum opening of tail gate		lware to a _ YES	
	Does it have provision for pivoting at bottom	x_	_YES _	NO
X9.16.3	Flush mount, ½ inch flame cut 304 stainless steel tail gate pivots	x_	_YES	NO
X9.16.4	Heavy duty offset hinge plates, one (1) inch flame cut 304 stainles	ss steel	xYE	SNO
X9.16.5	1/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless		tch plates YES	
X9.16.6	Full perimeter 201 stainless steel boxing with all horizontal edges	_	d outward YES	
X9.16.7	Are there three (3) 10 gauge 201 stainless steel sloped horizon perimeter boxing		ces that a _YES _	A Company of the Comp
X9.16.8	Stainless steel upper pins with grease zerks	x_	_ YES _	NO
X9.16.9	Latching action at the bottom of gate is operable by the truck	driver	without	leaving the

X9.16.	Is gate self aligning	x_	YES	NO
X9.16.	Are tailgate lower latch pins 304 stainless steel 1 1/4 inch diameter	x_	YES	NO
X9.17	Does the body have the capability to convey to the rear with a stainless distributing material		material : _YES	_
X9.17.	to right, and up and down to assure accurate placement of mate	erial o	•	disc to
X9.17.	2 10 gauge stainless steel 20 inch diameter spinner disc to have repla		e fins YES	NO
X9.17.	Are spinner disc vanes 304 stainless steel	x_	_YES	NO
X9.17.	Is spinner motor mounted on top of spinner disc _x YES _	N	(O	
	Is it enclosed in removable material shedding protective cover	x_	_YES	NO
X9.17.	Is spinner disc driven by a 4-bolt 2.8 CIR hydraulic motor	x -	_YES	NO
X9.17.			nner disc t _YES	
X9.18	Hydraulic Hoist:			
X9.18.	Is it trunnion mounted to bottom of dump body	x_	_YES	NO
X9.18.	Is telescopic hoist no less than N.T.E.A. Class 90 – Double Actin		h 26 ton c _YES	
X9.18.	Is single hoist cylinder trunnion mount	x_	YES	NO
X9.18.	Does hoist cylinder have three (3) stages with _140_ inches of st	roke	xYE	sNo
	Manufacturer and model:Mailhot CS-140-5.5-3DA	_		
X9.18.	Does the cylinder have wear and corrosion resistant nitrided cy			NO
X9.18.	6 Cylinder warranty:2_ years	x_	_YES	NO
X9.18.	Does a five (5) degree oscillating cylinder collar protect the cylinder provided		against sic _YES	
X9.18.	Does the body have 6 inch x 8 inch x 1/2 inch formed angle real in the truck chassis frame	~	e assembl YES	•
X9.18.	Does the rear hinge assembly have cold roll steel hinge pins cor blocks with grease zerks		ng to 2 1/2 YES	inch hinge NO

X9.19 Are X9.19.1	the following features included: Warning light (bed raised) console mounted	xYES	NO
X9.19.2	Hydraulic oil level reading	xYES	NO
X9.19.3	Safety decals as required	xYES	NO
X9.19.4	201 stainless steel mud guards, $10$ gauge x 24 inches x 30 incl front of rear wheels	nes permanently atta xYES	
	Will body vendor align exhaust stack for body clearance	_x_ YES	NO
X9.19.5	201 stainless steel shovel bracket	_x_ YES	NO
X9.19.6	201 stainless steel gussets (board pockets) for 4 inch $x$ 6 inch front and rear and mid-rail	lumber (rough) loca xYES	
	4 inch x 6 inch (rough) oak sideboards supplied and bolted th	nrough the gussetsxYES	NO
	Painted aluminum to match the body See ADDENDUM	DNA_YES	NO
X9.19.7	Does the unit have air operated tailgate spring applied air re	lease mechanism xYES	NO
	Pivot shafts included stainless steel bushings to eliminate seiz	cing_x_YES	_NO
X9.19.8	1 1/2 inch 304 stainless steel grip strut walk rail installed on l	both sides of the bod xYES	
X9.19.9	OSHA approved backup alarm, electronic ambient, adjusts t shock mounted at the rear	to background noise	•
X9.19.10	OSHA approved body support, both sides	_x_YES	NO
X9.19.11	Unit equipped with 49,000 lb. capacity pintle hook centered l		
	Manufacturer and Model:Wallace Forge B30	xYES	NO
	Height from ground level to center line of pintle "eye": _32_	_inches	
X9.19.12	Air deflector-hood mounted, blue or smoke	_xYES	NO
	Deflector manufacturer's standard width for truck mode Width: _Depends on truck manufacturer and hood width an	xYES d design	NO
	Access to front end hood tilt handle	_x_ YES	NO
	Extra handle	VES x	NO

X9.20 L1g	inting: weather/snock resistant lights LED type with average amp dr	aw between . x YI		
Ma	nufacturer and Model:Maxxima_LED			
	connections have sure snap plug assemblies and epoxy sealed electr l vibration	onics to prote x YI	-	
X9.20.1	All marker lights 2 1/2 inch diameter flush mount sealed beam l mounted in rubber base	ights with int x_ YI		
X9.20.2	Are all lights connected to chassis through a weatherproof justiness of truck	unction box   x_ Yl		
X9.20.3	Rear lights shock mounted, recessed oval stop, tail, turn, and recommounted in back post	cessed oval b		-
•	Strobe lights marked and switched from dash board location	_x_ YI	ES	NO
	Manufacturer and Part #:Trucklite 60362Y			
X9.20.4	Center rear I.D. lights three (3) located in truck chassis	_x_ YI	3S	NO
X9.20.5	Two (2) amber oval LED strobe lights mounted at the front correct (2) amber oval LED strobe lights mounted at each outside corne		protector	
	Manufacturer and Part # of Both Locations:Trucklite 60362	2Y	**********	
	Strobe lights marked and switched at dash board location	xYI	3S	NO
X9.20.6	Auxiliary headlights for snowplowing application shock mounted  Manufacturer and Part #:Signal Stat 640WK	ed on fender o		_NO
X9.20.7	Two (2) oval amber LED strobe lights mounted at top of rear conswitched in combination with cab protector strobe	orner posts rig x Yl	-	
	Manufacturer and Model:Trucklite 60362Y		٠	* .
X9.20.8	Lighted license plate bracket	_x_ Y	ES	NO
X9.21 Are	e the following at the front or rear both sides of the body:			
X9.21.1	304 stainless steel fold down ladder that locks into position who position		e down o	
X9.21.2	Two (2) 304 stainless grab handles	xY	ES	NO

X9.21.3	Is the design and strength characteristics of entire body such that t hoisting system will not suffer any deformation, damage, or struct raising a distributed full payload	ural fai		ting from	
X9.22 Bum	nper:				
X9.22.1	Bumper formed out of 1/4 inch roll steelx_ YES NO				
	Weighs _12_ lbs. per square foot				
X9.22.2	Bumper face covers all of truck frame (12_ inches) with two (2 and bottom		es of _2.5_ _YES		эр
X9.22.3	Overall width of bumper:94 inches				
X9.22.4	Bumper straight across front from centerline of truck chassis _21_	_ inche	es each sid	le of	
	Centerline, making bumper straight42 inches long in center	with en	ds swept	back	
	30 degrees and27 inches each side.				
X9.22.5	Bumper has two (2) access holes for utilization of tow hooks	x_	_YES	NO	
X9.22.6	Upper and lower flanges cut and welded solid at point where bum smooth		ent and g _YES		•
X9.22.7	Bumper mounted by two (2) mounting angles bolted to front of tr 5/8 inch bolts each side		me with to _YES		
X9.22.8	Mount angle _3/8 inch x4 inches x _10 long with for		/8 inch ho _YES		
X9.22.9	Paint on front bumper:Dark Blue				
X9,23 Und X9,23.1	lerbody Tool Box: One (1) tool box mounted under body on right side frame rail	x_	_YES	NO	
X9.23.2	Tool box _18 inches high, _242 inches wide,18 inche angle frame attached to the truck frame	s deep o	cradled by YES	a heavy NO	steel
X9.23.3	Construction 14_ gauge, A-60_ galvanneal steel with all se	ams w	eldedx_	YES	_NO
X9.23.4	Tool box has horizontal hinged fold down door	x_	_ YES	NO	
X9.23.5	Tool box door has cable or chain to hold the door in a horizontal	position	1X Y	ES	_NO
X9.24 Loa	d covering system electrically or air controlled	x_	_YES _	NO	
X9.24.1	Electric motor assembly includes 12 volt direct drive motor with mounted control switch, resettable circuit breaker		d and reve YES		ı, cab

X9.24.2	Pivot arm assembly constructed in a two (2) piece bent arm configuration of _1 1/4 inch				
	14_ gauge steel tubing		x	YES	NO
X9.24.3	Bent arm extensions constructed of _1	1/4 inch14 gaı	ıge steel tul	ing	
X9.24.4	Rear cross constructed of1 inch14	4_ gauge steel tubin	g		
X9.24.5	Pivot arm rests included		x	YES	NO
X9.24.6	Underbody spring extension spring12_body with articulating spring mounting br			ase of piv YES	
X9.24.7	All steel components finished with manuwith adequate primer and paint	facturer's recomm		preventa YES	· ·
X9.24.8	Steel cab protector mounted triple bend w	ind deflector provid	ledx	YES	NO
X9.24.9	Load covering system provided with a	_18 oz. black vin		t 14 foot YES	•
X9.24.10	Load covering system supplied with all Virginia Division of Highways as a com	₹			
	t: Describe proposed method of painting Will the 304 stainless steel surfaces of tl 39.25.4	he body be "paint f	ree"x	YES	NO
_As per spe	cifications. 201 Stainless steel components to	be cleaned with ac	id wash and	not paint	ed.
_Other steel	surfaces to be spray painted as specified wit	h aluminum paint			
	nil/Decorative Stripes with Logo: striping and detailing <b>you provide</b> comply v	vith requirements of		6.1 throug	
X9.27 All l	oody features considered as standard, but	not specifically add	lressed:		
		·			
X9.28 Doe:	s the proposed unit meet or exceed the "Os	SHA OF 1970" and		ient char	

### X10.0 SPECIFICATIONS - CENTRAL HYDRAULIC SYSTEM

Is the central hydraulic system designed to operate the following:

Does controller software allow for adjustability of pre wet output by the operator, represented in gallons per tonx_YESNO
Does system operate using a flow meter feedback circuitx_YESNO
Does supplied spreader control contain the ability to control a closed loop pre-wet systemxYESNO
Pre-Wet System:
Are provisions made for a future add-on hydraulic driven pre-wet system_x_YESNO
Describe:
When will required number of operating manuals, service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon? x prior to deliver of unit or
If NO, refer to specification statement Section 6.6
Is descriptive literature full describing proposed central hydraulic system attached to your bid proposal?x_ YES NO
ordered
Certified Power Component Technology G03080009 West Virginia System2011 and later as
Manufacturer, model, series, and date of manufacture of proposed central hydraulic system:
Years company has been an authorized dealer for proposed unit:1 years
Telephone Number:304-346-5301
Address:P.O. Box 473 Charleston, WV 25322
Bidder:West Virginia Tractor Company
Are provisions made for future add on pre-wet systemx_YESNO
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 circuitx_YESNO
A front mounted telescopic dump body hoist cylinder, a hydraulically driven integrated salt and abrasive

	Is information related to pre wet application rate and total flow in gal while the pre wet system is active		isplayed o _ YES	
	Does central hydraulic system have a minimum two (2) year basis bur including parts and labor?	_	o bumper YES	-
X10.1 X10.1.	Pump System: Pump: Variable volume pressure compensated load sensing axial p		ype YES_	NO
X10.1.	2 Front mounting flange and main housing/case of cast iron construc		- <u></u>	
	Inlet and outlet port section of high strength ductile iron with SAE type porting	-	lange porti _YES	_
X10.1.	Is suction port and associated plumbing sized to allow for mini between the pump and the suction port on the reservoir?			
	Does installation comply with pump manufacturers allowable		ondition s YES	_
	Is suction plumbing equal to or greater than pump inlet or suc	tion si	zex_YI	ESNO
X10.1.4	Is pressure port of the SAE split flange or ORB type side mounted solenoid shut down valve assembly		ect bolt m YES	
X10.1.	Case drain and load sense signal ports of the SAE O-ring type	x_	YES	NO
	Case drain line taken directly to tank without passing through the r		ine filter YES	NO
X10.1.	Input shaft has a minimum continuous torque rating equal to when pump is operated at maximum engine rpm, maximum di pressure	splace		system
	Is it minimum SAE "C" keyed	x_	YES	NO
X10.1.	Front input shaft bearing heavy duty ball or roller type designed fo	~	axial and 1 YES	
,	Rear shaft bearing of the high speed and load sleeve type design	x_	YES	NO
	Bearings fully lubricated by flooded case oil	x_	YES	NO
X10.1.8	Ramp/swashplate supported by pressure lubricated bearings of the high piston load support		cam or sa YES	·
	Ramp angle positioning by means of dual servo control cylinders f	•	d pump re YES	sponse and

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 repairx_ YES NO
X10.1.9.1	System design and components provide flow, pressure and performance
	requirements 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 rangexYESNO
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 numberCS-140-5.5-3DA13 gallons to fully extend but after filling _11 gallons is required to raise the cylinder:
	10 GPM flow rate 15 GPM flow rate 20 GPM flow rate 25 GPM flow rate 30 GPM flow rate 30 GPM flow rate 30 GPM flow rate 31 Seconds to raise 32 Seconds to raise 33 GPM flow rate 34 Seconds to raise 36 GPM flow rate 37 GPM flow rate 38 GPM flow rate 39 Seconds to raise 30 GPM flow rate 30 GPM flow rate 31 Seconds to raise 32 Seconds to raise 33 GPM flow rate 34 Seconds to raise 36 Seconds to raise 37 GPM flow rate 38 Seconds to raise 39 GPM flow rate 30 GPM flow rate 30 GPM flow rate 31 Seconds to raise 32 Seconds to raise 33 Seconds to raise 34 Seconds to raise 36 Seconds to raise 37 GPM flow rate 38 Seconds to raise 39 GPM flow rate 30 GPM flow rate 30 GPM flow rate 31 Seconds to raise 31 Seconds to raise
	Part numberCS-140-5.5-3DA13 gallons to fully extend2 gallons to fill and11_ gallons to extend
	5 GPM flow rate 10 GPM flow rate 15 GPM flow rate 20 GPM flow rate 25 GPM flow rate 25 GPM flow rate 30 GPM flow rate 40 GPM flow rate 47 seconds to raise 27 seconds to raise 22 seconds to raise 30 GPM flow rate 40 GPM flow rate 40 GPM flow rate 41 seconds to raise 42 seconds to raise 43 seconds to raise 44 seconds to raise 45 seconds to raise 46 GPM flow rate 47 seconds to raise 48 See EXCEPTION PAGE 48 seconds to raise 49 seconds to raise 40 GPM flow rate 41 seconds to raise 40 GPM flow rate 41 seconds to raise 42 seconds to raise 43 seconds to raise 44 seconds to raise 45 seconds to raise 46 GPM flow rate 47 seconds to raise 48 seconds to raise 48 seconds to raise 40 GPM flow rate 41 seconds to raise 40 GPM flow rate 41 seconds to raise
X10.1.11	Is the make and model bid in compliance with overall quality of construction, design, and

X10.1.12	Pump:  Manufacturer and Model:Sauer Danfoss Series 45J Frame	75CC_	<del></del>	
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 matching drive yoke on the pump		riveshaft fl _ YES	
X10.1.14.1	Does driveline have a minimum continuous torque rati imposed load when pump is operating at maximum sys	tem re	al to 2009 quiremen _YES	ts
	Manufacturer and Model:Spicer 1310 Series			
X10.1.14.2	Are dual journals and yokes incorporated to connect the puflange with an angular misalignment no greater than six (6 (2) degrees	) degre	aft and enges and not	less than two
-	Shutdown System: Normally closed, energize to open, solenoid operated control v manifold design to be directly bolted to pump pressure port	alve of	the cartr YES	idge and NO
	Is solenoid electrical connection of the Packard "Weatherpack wiring		with "SC _YES	
X10.2.2	Is valve controlled by a console mounted "Master On" switch with operation and by a float switch located in hydraulic reservoir to au pressure port flow to all down stream functions in the event of low	itomati v hydra	cally shut	off pump rel
X10.2.3	Pressure drop across valve _40 PSI at _40 GPM flow when in	n the sv	vitched op	en position
	Nominal valve rating50_ GPM at 3500_ PSI			
X10.2.4	SAE #6 gauge port equipped with Parker Hannifin Model PD361 protective cap provided for pump output pressure testing to be inswithin an easily accessible mounting position	talled in	stic coupli n valve ma _ YES	mifold and
X10.2.5	Valve designed to protect the pump from damage when the system and flow operation		t down at YES	
X10.2.6	Valve manufacturer and model:Certified Power HF010809			
X10.2.7	Central control console mounted audio alarm and warning lamp in shutdown		g pump pi _YES	
X10.2.8	Warning lamp press-to-test light and incorporate a switching syste assembly to simulate low oil level, shut off pump output flow and connection		oat switch	

X10.2.9	A console mounted electrical override function switch provide hydraulic functions in emergency situations	d to allow momentar x YES	
3/10 2 TS1 :			
X10.3 Dire	ectional Control Valve Assembly:  Valve stacked section type and of closed center circuit design	x YES	NO
	the second second syptemic of closed contor enough		10
X10.3.2	Each work section pressure and flow compensated with fully in	ntegrated load sense	network
		x YES	
	Flow output is relative to spool travel with preset maximum flo	ow rate obtained at m	naximum
	spool stroke providing feathering control of operated function	x YES	NO
X10.3.3	Dump body, snowplow lift, and snowplow power angle section	is of the manual cabl	e shift type
		x YES	NO
	Auxiliary circuit section of the electric solenoid shift type	x YES	NO
•	Both ends of each section valve spool sealed with weather resis	stant caps or cable er	ntry bonnets
		x YES	-
X10.3.4	Valve assembly flow capacity rating and pressure drop cha	racteristics sufficie	nt to provide
	for the required pump output and circuit flow rates at the	_	
	differential pressure settings	xYES	NO
X10.3.5	All valve ports of the SAE o-ring seal type and of sufficient siz	-	
	rates at stated load sense differential pressure	xYES	NO
X10.3.6	Is valve a pre-compensated design	YESx	
	A priority section installed to allow plow to raise in a system	n over demand situ x YES	
77100 H		<del></del>	
X10.3.7	Main pressure inlet relief valve provided to reduce system pres	sure shock loadsxYES	NO
		<del></del>	
	Is it preset at pressure so as not to interfere with pump pressure premature relief opening at system high demand operation	e compensator and to x YES	-
X10.3.8	If pilot pressure reducing valve is required for solenoid section and requirements of section 10.1.0.1		
	operating requirements as set forth in Section 10.1.9.1	xYES	NO
	Pilot supply and tank venting internal within the valve asse NO See EXCEPTION PAGE	mbly section_DNA	YES
X10.3.9	Load sense network high pressure relief provided and preset to	limit system maxim	um operating
•	pressure	x YES	NO
	Set point provides proper pressure margin to pump pressure co		pressure relief
	valve as to prevent premature loss of required flow rates and pr	essure capability x YES	NO
		V 11/13	1117

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
	xYESNO
X10.3.11	Dump body control section 4-way three (3) position spring centered cylinder spool for operation of a double acting hoist cylinderx_ YES NO
X10.3.11.1	Full flow workport relief valve installed in power up portx_ YES NO
	Set point to prevent operating pressure from exceeding hoist cylinder normal operating pressure ratingx_ YES NO
X10.3.11.2	Is full flow work port relief valve installed in power down port set at 500 PSI to prevent full system pressure on down strokex_ YES NO
X10.3.12	Snowplow lift control section is 4-way three (3) position spring centered cylinder spool for operation of a double acting lift cylinderx_ YES NO
X10.3.12.1	Adjustable flow control installed to limit downward speed of snowplowx_ YES NO
	Flow limiting control system preset for proper plow lift speed to be supplied to reduce over demand operation and to increase system efficiencyx_ YES NO
	Will flow limit be determined at time of pilot model reviewx_ YES NO
X10.3.13	Snowplow power angle control section is 4 way three (3) position spring centered cylinder spool for operation of cylinder type reversible plowx_ 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 efficiencyx_YESNO
	Will flow limit be determined at time of pilot model reviewxYESNO
X10.3.14	Plow Balance Valve:
X10.3.14.1	Is hydraulic system supplied with a plow balance valvex_ YES NO
X10.3.14.2	Is valve designed to offset a specific (adjustable) plow weight when activatedxYESNO

X10.3.14.3	Does plow balance system not alter the operation have an adverse effect on the performance of oth equipment including: Yes, it does not alter and y	er hydraulio	cally ope	rated
	Wing Plowx_ YES	NO		
	Body Hoistx_ YES _			
	Plow Hoist or Anglex_ YES			
	Spreader functionsx_ YES			
	Are all normal operations of the plow lift/lower f	unctions ma	intained	l without
	additional tasks	x_	_YES_	NO
X10.3.14.4	Will plow lift be immediate to guarantee safe ope			
		X_	YES _	NO
X10.3.14.5	Are solenoid valve coils used	x_	_YES_	NO
	Will they have manual override capabilities if ne	eded for con	tinued r	ise when coils
	fail	X	_YES_	NO
X10.3.14.6	Does manifold valve include a pressure test point			_
	pressures	_ x	YES	NO
X10.3.14.7	Is pressure test point capable of tapping into syst	_		•
		x_	_ YES _	NO
X10.3.15	Auxiliary equipment drive circuit control section 3-way thresolenoid operated motor spool			centered NO
	Is the circuit separate and distinct from the spreader control	systemx_	_YES_	NO
X10.3.15.1	Flow limiting control system preset to provide _2	22 GPM at	t a syster	m load pressure
	of 2200_ PSI. Pump is capable of supplying this flo	w rate with	engine s	peed of
	1400 RPM			
X10.3.15.2	Is an inline mounted control valve supplied for the control valve section			e of directional _xNO
·	If supplied, is proper interconnections and ventire provided	ng of load se		ork system DNA_NO
X10.3.15.3	Is pressure line 3/4" SAE 100R2 hose and manifold equipped with Parker Hannifin SH6-62 quick discor			
	plug	X_	_ YES _	NO
	Is mating nipple SH6-63 with protective cap supplie	ed x	YES	NO

X10.3.15.4	Manufacturer and model of directional and auxiliary	circuit vaives:	
	_Sauer Danfoss PVG32		
X10.3.16	Is directional control valve assembly located in a combination enclosure assembly to protect the hydraulic tank/valve from the second s		
	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 pro	e-wet system x_YES	NO
X10.3.17.2	Is hydraulic valve of the sectional typeYES_xs contained in a manifold _xYESNO	NO OR of the car	tridge style
X10.3.17.3	If manifold type valve is supplied, it it attached to the	main valve asser _x_ YES	-
X10.3.17.4	Is all wiring to pre-wet hydraulic circuit provided as p the bid	oart of the systen _x_ YES _	
X10.3.17.5	Is wiring to the control console related to the rest of the float, flow meter connection, etc.) provided as part of time of pre-wet system install	_	age at the
X10.4 Sprea	der Control Valve Assembly:		
	Are spinner and conveyor solenoid flow controls of the PWM prequipped with manual overrides	-	id type andNO
	Are overrides manually adjustable over operating flow range in t failure	he event of electr	•
X10.4.2	Flow control circuits are pressure compensated	_xYES	NO
	Provides spinner and pre-wet flow rate of _0-7 GPM and0-15 GPM	a conveyor flow	rate of
.*	Pressure relief valve system limit circuits to _2200 PSI		
X10.4.3	Load sense circuits connected to directional control valve network	rk for proper pum xYES	
	Does design prevent improper high pressure load sense signa when spreader valve is not in use and when spreader quick d		

Will mounting location be determined at time of pilot model review \_\_x\_YES\_\_\_\_NO

X10.4.4	Is PWM solenoid control supplied by microprocessor spreader	control system	
		x YES	NO
	Are solenoids capable of 100% PWM signal without failure	xYES xYES	NO
X10.4.5	Solenoid operated directional control valve and in-cab mounted spreader conveyor reverse required for front or rear material dis	_	
		xYES	NO
X10.4.6	Is electrical switching and indicator light for spreader clogged i	ndication providedxYES	NO
X10.4.7	Manufacturer and model of valve:Sauer Danfoss PVG32	Manifold	
X10.5 Spre	ader Control System:		
X10.5.1	Dual flow, ground speed oriented spreader control system of the based type with nonvolatile control memory	e closed loop microp _x YES	
X10.5.2	Automatic calibration and flexibility of programming	_x YES	NO
X10.5.3	System is capable of operation in ground speed oriented cloopen loop, manual set, blast and unload modes and fully fur material discharge selection	- •	nt and rear
X10.5.4	Automatic switchover with display indication from closed loop event of loss of feed rate sensor signal is provided	to open loop operat	
X10.5.5	Control console digital readouts capable of displaying actual ap speed, distance of spread route driven and total quantity of mate		le ground
		_x YES	NO
X10.5.6	Programming and output cable connection for material and trip uploading is provided	information printerxYES	and program NO
X10.5.7	Control unit capable of accumulating display information up to of discharged material	999,999 miles and 9 xYES	
X10.5.8	Console programming capable of selection, calibration and disp materials with independent application rates of each material ca or to rate increments of a preset maximum application rate		fixed rates
X10.5.9	A variable digital access code lockout for application rate select perameters is provided See EXCEPTION PAGE	tion and for system o	
	Is it a key switch	_x_ YES	NO
X10.5.10	Backlighted switches and LCD screen utilized for on-board readout and application rate selection	programming and x YES	for display

X10.5.11	Is material spread width selectable by no less than 10 position swit maximum spinner speed totally programmable through entire flow				NO
	Is spinner speed capable of linking to ground speed for on-off	contro	_xY	ES	_NO
X10.5.12	Does display enunciate error message and sound audio alarm v detects any loss of control or accuracy		aicropro YES		stem
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 sy		upplied c		3
X10.5.15	Is a built-in ground speed simulator provided either internal to the control console		or locate YES		
X10.5.16	Are all components required for proper installation and opera truck and spreader units supplied		control s		nto
X10.5.17	Manufacturer and model of proposed control system :				
	Certified Power Component Technology SG51 with G1400 al Control Console: Mounted between seats within easy access of the driver		YES		_
X10.6.1.1	Warning light (bed raised) control console mounted	x	YES _	NO	
X10.6.2	Will all wiring, valve control cables and electrical harness entr sealed with grommets		cab and _YES		
X10.6.3	Are remote control valve levers console mounted	x_	YES	NO	
	Are all levers clearly marked as to function and operation	x_	YES	NO	
X10.6.3.1	Remote control levers to operate push-pull type cables with rod ends		diameter YES		steel
X10.6.3.2	Is inner cable member 18-8 stainless steel armor wrapped or resistance nylon liner and polyethylene covered tempered states.	steel w		it	
X10.6.3.3	Is cable to valve connection of the weather resistant bo	nneted	type_x_	YESr	O
X10.6.3.4	Hoist control lever OSHA compliant (hoist interlock)	_x	_YES	NO	
X10.6.4	Are central console or dash mounted rocker switches with indicate lights, spreader light and plow lights isolated from all hydraulic sy				be

X10.6.4.1	Are interconnections and cables installed and ready for o	operationx_	_ YES	_NO
X10.6.4.2	Is hydraulic system automatic shutdown system and con	_	relay control S NO	led
X10.6.4.3	Relay(s) mounted within the cab	_x_ YES	SNO	
X10.6.4.4	An access plate to internal wiring is provided	x YES	SNO	
X10.7 Hydi	raulic Reservoir:			
X10.7.1	Tank/valve enclosure flex mounted to the chassis frame rail	_x_ YES	S NO	
X10.7.2	Tank constructed of _7 gauge 304 stainless steel	xYE	S NO	
X10.7.3	Tank equipped with a combination oil level sight glass and then	mometerx_	_ YES	NO
X10.7.4	Tank equipped with a pressurized ten (10) micron filter/breathe Strainer	-	ovable 500 m S NO	nicron
X10.7.5	Is an internal stainless steel baffle provided within the tank	_x_ YES	SNO	
X10.7.6	Tank stenciled with minimum of 1 1/2" high "Hydraulic Oil"	x YES	SNO	
X10.7.7	Tank level switch connection "SO" type wiring and flange mou enclosure to protect it from the elements		e tank/valve S NO	
X10.7.8	Reservoir supply suction port _2 inches NPT and system NPT	report port _	1 1/4 inches	
X10.8 Filtra	ation			
X10.8.1	Manufacturers standard filtration to adequately protect the hydr	aulic system fr	om damage	
		x YES	SNO	
X10.8.2	Return line filter isolated from reservoir by a full flow non-restriction valve if filter not installed in reservoir See EXCEPTION PAGE			ss ball
X10.8.3	Each filter equipped with a differential pressure switch to indicate means of a console mounted indicator lamp		ed condition SNO	by
X10.8.4	One (1) extra replacement filter for each assembly is provid			
•		_xYE	SNO	
X10.8.5	Filter assemblies positioned as close to reservoir as possible and location	d in an easily a x YE		vice

\_x\_\_\_ YES \_\_\_\_ NO

	es and Fittings:		
X10.9.1	Each hose assembly (hose with hose ends) except for suction hose connections on ends where connection to system component is m		
X10.9.2	All pressure line hoses meet or exceed SAE Specification 100R2 pressure hose, type C2AT for sizes up to and including 1 inch ID		
X10.9.3	Suction hose 2 inch nominal ID and meet SAE Specification 1001 reinforced, rubber covered hose with replaceable bolt-on type fitting.		
X10.9.4	All hydraulic hoses fully cleaned on interior, installed, and ready	for operationx_ YES	NO
X10.9.5	Are grommets used when routing hoses through steel bracketing	or frame membersxYES	
X10.9.6	Are Snap-Tite quick disconnects (manifold mounted) supplied pressure and return lines (VH Series Auger/Conveyor)		
	Is iron or galvanized iron pipe for fittings and connectors used	x YES	NO
X10.9.7	Are all fittings and connectors steel type designed for high pressu	re hydraulic syste xYES	
X10.9.8	Pipe thread ported components and connectors are only used whe available with SAE or JIC porting	n the specific con xYES	
X10.9.9	Are all pipe thread connectors used coated with liquid Teflon pip	e sealer prior to as xYES	
X10.9.10	Hoses that run to the front of truck chassis for snowplow function the front bumper with sufficient access for pump service and snow	wplow hitch instal	lation
X10.9.11	Are snowplow lines equipped with complete 1/2 inch "VH" serie (coupler and nipple supplied) and metal caps and plugs	s Snap-tite quick o	
X10.10 Iter sup	ms not specifically stated but are necessary for proper system ins plied and comply with recommended hydraulic industry standar	tallation and ope ds:	ration are
· · · · · · · · · · · · · · · · · · ·		·	
X10.11 Will	l initial servicing and pre-testing of hydraulic system be included	l for:	
X10.11.1	Initial fill of reservoir with a high grade 32 AW hydraulic flu level, marked on sight glass :	id to approximatxYES	ely 40 gallon NO

X10.11.2	Start-up and initial run of hydraulic system, checking for efficiency	for leaks, excessive heat, systemxYESNO	
	Will you replace any defective component Will you cover any defects discovered at time of plow in	_x_YESNO	
	available at time of initial test of plow circuits	_x_YESNO	
X10.11.3	Refill reservoir to the 40 gallon operating level	_x_ YES NO	
X10.12 If	any hydraulic lines are located within 10 inches of exhaust syste	em are they metal lines and insul _x_ YES NO	ated
bil	re detailed component specifications, product literature, syst l of materials and full functional hydraulic system schemati	ics in accordance with JIC and	with
AŅ	ISI-Y32 format attached with your bid	_x_ YES NO	
	successful vendor, will you provide WVDOH with a complermal maintenance on proposed unit	ete list of all filters required forxYESNO	
tro wh	plain your training sessions with each purchase order cover uble shooting and calibration/programming of the hydrauli ere will they be held:		
_T	hree one-day training sessions as specified		<del></del>

Bev 09/08

### State of West Virginia

### VENDOR PREFERENCE CERTIFICATE

Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

DIAISION	Will Halle the determination of the
1.	Application is made for 2.5% resident vendor preference for the reason checked:  Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced-
	ing the date of this certification; <b>or</b> , Bidder is a partnership, association or corporation resident vendor and 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 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; <b>or</b> , Bidder is a 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 viest virginia continuously for the low (1) years immediately preceding the date of this certification; <b>or</b> ,
2.	Application is made for 2.5% resident vendor preference for the reason checked:  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; or,
3.	Application is made for 2.5% resident vendor preference for the reason checked:  Bidder is a nonresident vendor employing a 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 Bidder's 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; or,
<b>4.</b> x	Application is made for 5% resident vendor preference for the reason checked:  Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6.	Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:  Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
requir again	r understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty st such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency fucted from any unpaid balance on the contract or purchase order.
autho the re	bmission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and rizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid quired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information and by the Tax Commissioner to be confidential.
Unde	er penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate des during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
	er: MATHENY MOTOR TRUCK CO Signed: W.J. Wathing
	05/04/2011 Title: CEO
	k any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No.	7011EC18
KEU NO.	10771070

### 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 owed 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 exceed 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.

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

### WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: MATHENY MOTOR TRUCK COMPANY	
Authorized Signature:	Date: 05/04/2011
State of WV	
County of Wood , to-wit:	
Taken, subscribed, and sworn to before me this 4+day of MAY	, 20 <u>1</u> ].
My Commission expires	
ACTIVICAL LICET NOTABY BURLIC	Clara R. Fluid
AFFIX SEAL BERE  OFFICIAL SEAL  NOTARY PUBLIC  NOTA	Clura X. Flewer



\*709035314

PO BOX 1304

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

304-485-4410

### Request for Quotation

7011EC18

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Γ	BRUSHY FORK ROAD BUCKHANNON WV
Ò	BUCKHANNON, WV

PARKERSBURG WV 26102-1304

MATHENY MOTOR TRUCK COMPANY

DATE PRINTED TERMS OF SALE. SHIP VIA F.O.B. FREIGHT TERMS BUCKHANNON, PREPAID NET 30 DAYS GROUND 04/11/2011 BID OPENING DATE: BID OPENING TIME 04/28/2011 QUANTITY AMOUNT UOP . UNIT PRICE LINE ITEM NUMBER PREIGHTLINER WITH ADDENDUM NO. 1 WV TRACTOR THIS ADDENDUM IS ISSUED TO: 1.) EXTEND THE BID OPENING DATE FROM 04/21/2011 AT 1:30 PM TO 04/28/2011 AT 1:30 PM. 2.) PROVIDE A COPY OF THE MANDATORY PRE-BID SIGN IN SHEET. \*\*\*\*\*END ADDENDUM NO. 1\*\*\*|\*\*\*\*\* ĦΑ 0001 287-36 64,000 GVW CAB AND CHASSIS, COMBINATION THIS IS THE END OF REQ 7011EC18 \*\*\*\*\* TOTAL: SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE 304-485-4418 05/04/2011 TITLE **ADDRESS CHANGES TO BE NOTED ABOVE** 55-032-0770



NENDOR

\*709035314

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

304-485-4410

### Request for Quotation

RFQ NUMBER 7011EC18

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:				
JYER				

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c	DIVISION OF EQUIPMENT DI	HIGHWAYS
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۲ T	ROUTE 33 BRUSHY FORK BUCKHANNON,	ROAD
ò	BUCKHANNON,	WV
	26201	304-472-1750

MATHENY MOTOR TRUCK COMPANY PO BOX 1304 PARKERSBURG WV 26102-1304

FREIGHT TERMS F.O.B. SHIP VIA TERMS OF SALE DATE PRINTED W٧ PREPAID GROUND BUCKHANNON, NET 30° DAYS 04/22/2011 OPENING TIME 01:30PM BID OPENING DATE: 05/05/2011 **AMOUNT** CAT. ITEM NUMBER UNIT PRICE QUANTITY LINE NO. FREIGHTLINER ADDENDUM NO. 2 WITH WV TRACTOR THIS ADDENDUM IS ISSUED TO: ADDRESS TECHNICAL QUESTIONS PER THE ATTACHED. ADDRESS SPECIFICATION CHANGES PER THE ATTACHED. EXTEND THE BID OPENING DATE FROM \$\dd{q}4/28/11 @1:30 PM 05/05/11 @1:30 PM. \*\*\*\* END ADDENDUM NO. 287-36 d001 64,000 GVW CAB AND CHASSIS, COMBINATION THIS IS THE END OF RFQ 7011Ed18 \*\*\*\*\* TOTAL: SEE REVERSE SIDE FOR TERMS AND CONDITIONS TÉLÉPHONE 304-485-4418 05/04/2011 SIGNATURE ADDRESS CHANGES TO BE NOTED ABOVE TITLE 55-032-0770

CEO

### PREBID ADDENDUM #2 .7011EC18

### 64,000 GVW CAB AND CHASSIS, STAINLESS STEEL COMBINATION DUMP/SPREADER MUNI BODY, AND PISTON PUMP HYDRAULIC SYSTEM

CHANGES TO BIDDER'S EVALUATION REPORT:
X6.5 VENDOR WRITTEN QUESTION - No Change Required
FROM: X8.4.5.1 Front frame mounted tow hooks _YES_NO
TO:  X8.4.5.1 Does unit have front frame mounted tow hooks X YES NO
X8.5.4 VENDOR WRITTEN QUESTION - No Change Required
X8.5.24 VENDOR WRITTEN QUESTION – No Change Required
VENDOR WRITTEN QUESTION FROM: X8.6 - Line 1 and 2 Engine: Is engine diesel_YES_NOLITER Peak HP_at_RPM Torque_lb. ft. at_RPM
TO:  X8.6 - Line 1 and 2  Engine:  Is engine diesel X YES NO 12.7 LITER
Peak HP 410 at 1800 RPM Torque 1450 lb. ft. at 1240 RPM

X8.6 – L	R WRITTEN QUESTION ine 3 and 4 – LEAVE AS WRITTEN s engine compliant and certified to meet US EPA 2010 Emission Standards without sing Federal EPA credits  XYESNO
M	Ianufacturer: DETROIT DIESEL Model: DD13
X8.6.3 V	ENDOR WRITTEN QUESTION - No Change Required
X8.7.2 C X8.7.3 Is Si	
	o Change Required  ngle aluminum usable: 110 U.S. gallon; frame mounted X YES NO
X8.16.1	No Change Required - Capacity: 20,000 lbs.
X8.16.3	VENDOR WRITTEN QUESTION - No Change Required
X8.18.6	VENDOR WRITTEN QUESTION - No Change Required Radial Tires:
	Front Radial Tire: Manufacturer and Model: GOODYEAR G291
	Rear Radial Tire: Manufacturer and Model: GOODYEAR G282

### DELETE:

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 Manuals or CD

X8.25.2 Will booklets and pamphlets be furnished to be used by the operators\_YES\_NO Describe agenda\_

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

X9.0 VENDOR WRITTEN QUESTION (SPECIFICATIONS DESCRIPTION-No Change Required

### FROM:

X9.3 Front body bulkhead gauge Size: inch stainless steel

TO:

X9.3 Front body bulkhead 7 gauge Size: 3/16 inch 201 stainless steel

### DELETE:

X9.5 Two (2) front truck frame mounted tow hooks or eyes accessible through bumper\_YES\_NO

X9.6.8 VENDOR WRITTEN QUESTION - No Change Required

### FROM:

X9.8.1 Floor: \_ inch thickness 304 stainless\_ OR abrasion resistant AR400 \_ \_ inches thick

TO:

X9.8.1 Floor: 1/4 inch thickness abrasion resistant AR400 steel 3/16 inches thick

### VENDOR WRITTEN QUESTION:

### DELETE:

X9.11 Cab protector sides, formed with gussets, extending forward \_ inches Clearance above highest point of cab is \_ inches

FROM: X9.12.1	Does the body have one (1) piece sides constructed of 7 gauge 201 stainless steel_YES_NO
TO: X9.12.1	Does the body have one (1) piece sides constructed of 7 gauge 201 stainless steel with AR400 flat floor x YES NO
	with AR400 flat floor <u>x YES NO</u>
X9.13 VE	ENDOR WRITTEN QUESTION No Change Required
X9.15.6	VENDOR WRITTEN QUESTION - No Change Required
DELETE:	
X9.15.8	3/16 inch AR400 conveyor bed floor _YES_NO
DELETE	(Last Sentence Only)
X9.19.6	Painted aluminum to match the body YES_NO
FROM:	
X9.19.11	Unit equipped with 49,000 lb. capacity pintle hook centered between rear frame Rails _YES _NO
	Manufacturer and Model: _ Height from ground level to center line of pintle "eye" _ inches
TO:	
X9.19.11	Unit equipped with 49,000 lb. capacity pintle hook centered between rear frame railsYESNO
• •	Manufacturer and Model: Wallace Forge B30  Height from ground level to center line of pintle "eye" 32 inches
FROM:	
X9.24.7	All steel components finished with manufacturer's recommended rust preventative system with adequate primer and paint YES NO
TO:	
X9.24.7	All steel components finished with manufacturers recommended rust preventive system includes primer and paint  X YES NO

FROM:	
X9.25.1	Will the 304 stainless steel surfaces of the body be "paint free" _YES_NO
TO: <b>X9.25.1</b>	Will the 201 stainless steel surfaces of the body be "paint free"  YES NO
EDOM:	
FROM: X9.25.2	Describe proposed method of painting _
TO: X9.25.2	Will all 201 stainless steel surfaces be unpainted and cleaned with an acid wash solution to remove carbon burning from the stainless steel welds YES NO
FROM: X9.25.3	Describe proposed method of painting_
TO: X9.25.3	Will all non 201 stainless steel components on the body be painted aluminum  x YES NO
FROM: X9.26.4	Will striping and detailing you provide comply with requirements of Section 9.26.1 through 9.26.7 YES_NO
TO: X9.26.4	Will striping material meet the requirement of ASTMD4956-91 Type V sheeting, a super high-intensity retroflective sheeting consisting of microprismatic retroflective elements. Does the sheeting meet the requirements of NHSTA,DOT,49CFR, PART 571 Federal Motor Vehicle safety standards for conspicuity sheeting.
	× YES NO

### X10.0 VENDORS WRITTEN QUESTION - No Change Required

X10.1.10 VENDORS WRITTEN QUESTION - Change in Manufacturer and part number only in specification; blank line in Bidder's Evaluation Report to be filled in - No Change Required to Bidder's Evaluation Report

### "EXCEPTIONS TO SPECIFICATIONS"

### RFQ NUMBER 7011EC10 West Virginia Division of Highways

**Bidder: MATHENY MOTOR TRUCK COMPANY** 

- X8.1 GVWR rating is 64,180 lbs. not the 64,000 lbs. requested.
- X8.5.20 Emergency triangle warning kit requests KD610-464S,KD Lamp or equal. I am providing Grote 71422 or Stimpsonite 130 or King James Co. 1005. These other three manufacturer's are "or equal". The reason for the three suppliers is that these kits are not readily available so we are forced to use three suppliers.
- X8.5.9.4.1 Provision for dual speedometer leads for body company are located in the chassis supplied body company component interface junction block.
- X8.5.10.1 Bid specs call for a mirror size of 7" X 16" with convex mirror. I am supplying a 5.1" X 16.75" mirror with convex mirror.
- X8.5.15 The Freightliner air conditioning diagnostic system is part of the complete chassis diagnostic system. This system is newer and more accurate than "APADS".
- X8.6.1 Bid spec requests a 395 hp @ 1700 rpm.

  I am supplying a 410 hp @ 1800 rpm.

  MANDATORY SPEC: Bid requests 1450 lb.ft. minimum torque at 1200 RPM. My bid has 1450 lb.ft. torque at 1240 RPM.

- X8.6.1.3 Included in my bid is a Artic Fox Model AFXC 406 in tank fuel heater. Bid request's a Zero Start Model 820-8751 & thermostat Model 820-8786 inline fuel heater. My fuel heater is in the fuel tank not in the engine compartment.
- X8.6.1.4.2 Our tailpipe shield is supplied by Burgaflex which is an "or equal" to Riker.
- X8.10.7 Bid request is for Weather Pac 12110751 and I am supplying the Weather Pac 1530027 which is an "or equal" and is designed for our chassis.
- MANDATORY SPEC: Our Jacob's Engine Brake is a compression brake.

  Bid requests a compression and exhaust brake. Some truck suppliers supply a compression and turbo brake but not a compression and "exhaust" brake.

  I have attached literature about our brake. I believe it compares favorable to the Mack engine.
- X8.10.7.2 Bid request is for a Cole Hersee No. 12081 and I am providing an "or equal" Phillips No. 15720 which is identical to the Cole Hersee No. 12081.
- X8.10.7.4 The numbers for this item will be sent under separate cover.
- X8.13.5 Bid request is for Stemco or equal and SKF Scotseal Plus XL is an "or equal".
- X8.16.3 Bid request is for Stemco or equal and SKF Scotseal is an "or equal".
- X8.17.3.4 Bid request is for MGM TR-TS parking brakes and the Haldex Goldseal is an "or equal".

### WEST VIRGINIA TRACTOR COMPANY

### 709EC018 Exceptions to Specifications

- 9.22.8 The mount angle is  $3/8" \times 4" \times 10"$ .
- 10.1.10 The gallons to fully extend, fill and extend listed on our compliance pages are actually correct for the CS-140. The amounts listed in your specs are for the CS 130.
- 10.3.6 This may not be an exception. Our valve is a post-compensated design, which I don't think is an exception. So, the second part of the question does not apply.
- 10.5.9 This may not be an exception. A variable digital access code lockout is not provided, but the alternate key switch is.
- 10.8.2 Our return line filter is in the reservoir, and a ball valve is not provided.



FREIGHTLINER 11450

### VOCATIONAL SEVERE DUTY PLOW



### FREIGHTLINER 11450

### SEVERE DUTY PLOW



### FREIGHTLINER'S NEW 114SD: THE BEST SOLUTION TO YOUR TOUGHEST CHALLENGES.

Through wind, through sleet, through rain, through snow - especially snow - Freightliner Trucks' new 114SD Severe Duty Plow is ready to tackle whatever Mother Nature throws its way.

Built on our severe duty platform, the 114SD plow features best-in-class visibility, enhanced maneuverability for tight situations, a lightweight aluminum cab for corrosion resistance, and larger door openings for easy entry and egress. And, with its factory chassis layout and inclusive warranty, the 114SD is an easy upfit for truck equipment manufacturers.

Legendary Freightliner quality, and insightful, industry-specific innovations make the 114SD the perfect vehicle to meet all of your most severe duty plow needs.

### STANDARD FEATURES

- 114" B9C aluminum day cab
- . Set-forward front axle position @ 31"
- · Strong, durable cab and hood
- Radiator-mounted mold-in color front grille with signature styling
- Front grifle, headlight bezels, engine air intake grille, bumper and primary mirrors trimmed in black
- · Halogen composite headlights
- Air rear cab mounts

- · Ergonomic wing dash
- 63" x 14" rear window
- Up to 50 degree wheel cut depending on wheel equipment
- DD13® engine with 350 HP, 1350 lb-ft torque
- · Eaton® Fuller® 10-speed manual transmission
- · Front axle rated at 12,000 lbs
- Rear axle rated at 40,000 lbs
- 60-gallon cylindrical fuel tank

### **OPTIONAL FEATURES**

- Bright accented front grille with chromed grille surround, headlight bezels and engine air intake grille
- · Engine air intake pre-cleaner
- Integral front frame extensions in 12" and 24" lengths
- Large selection of wheelbases with frames and frame reinforcements to meet severe duty needs
- Front engine, rear engine and transmission power take-offs
- Three batteries mounted under cab with clear back of cab packaging
- Range of cylindrical and rectangular aluminum fuel tanks
- Steer axles from 12,000 to 22,000 lbs (23,000 lbs available Oct. 2011)
- . Single drive axles from 21,000 to 38,000 lbs rating
- Tandem drive axles from 40,000 to 58,000 lbs rating
- Inside/outside engine air intake with snow door

FIND A TRUCK FOR YOUR BUSINESS AT

· Grab handles with rubber inserts

FREIGHTLINERTRUCKS.COM

- Raised fuel tank and under-step aftertreatment system (available Oct. 2011)
- A wide range of Eaton and Allison® transmissions
- · Freightliner AirLiner® and Tuffrac® rear suspensions
- Hendrickson and Chalmers rear suspensions
- Expanded dash instrumentation, switches and controls to meet almost any vocational application
- DD13 engine with up to 450 HP, 1650 lb-ft torque
- Cummins® ISC engine with up to 350 HP, 1000 lb-ft torque (available Oct. 2011)
- Cummins ISL engine with up to 380 HP, 1300 lb-ft torque (available Oct, 2011)
- · Frame-mounted front tow hooks
- Switch/harness pre-wire for snow plow lights (four configurations)
- · Fresh air intake snow shield
- · Snow plow crossmember for wing plow support
- · Extreme climate thermal cab insulation
- . 3.2 million RBM single frame rail (available Oct. 2011)

Visit your local Freightliner dealer for complete specifications and options.



Ergonomically designed driver's area features an automotive style dash, easy-to-read LED-backlit gauges and controls within easy reach.



Tift hood with radiator-mounted stationary grille and front frame extensions.



Under cab storage for up to three batteries allows for clear back of cab packaging.



Engine air intake with snow door.



Competitive financing available through Daimler Truck Financial. For the Freightliner Trucks Dealer nearest you, call 1-800-FTL-HELP, www.freightlinertrucks.com, 500, 2/11, FTL/MC-B-1038. Specifications are subject to change without notice. Freightliner Trucks is registered to ISO 9001:2000 and ISO 14001:2004, Copyright © 2011. Daimler Trucks North America LLC, All rights reserved. Freightliner Trucks is a division of Daimler Trucks North America LLC, a Daimler Company.

Freightliner (FTL)



Freightliner Medium-Duty/Business Class

	Coverage	
Description	Time <sup>1</sup>	Distance <sup>1</sup>
Basic Vehicle	3 ZYears	Unlimited
Battery	3 AYear	100,000 mi/161 000 km
Brightwork	6 Months	Unlimited
Cab Corrosion/Perforation	5 Years	Unlimited
Cab Structure	3 2Years	Unlimited
Chassis Paint	6 Months	Unlimited
Corrosion	6 Months	Unlimited
Crossmembers	5 Years	Unlimited
Drivetrain	2 Years	Unlimited
Frame Rails	5 Years	Unlimited
Paint	1 Year	100,000 mi/161 000 km
Steer Axle <sup>2</sup>	2 Years	Unlimited

<sup>&</sup>lt;sup>1</sup>Time or distance, whichever comes first

MATHENY MOTOR TRUCK CO. P.O. BOX 1304 PARKERSBURG, WV 26102-1304

<sup>&</sup>lt;sup>2</sup> Steer axle coverage-group applies to glider only.

### Warranty Coverage Exclusions

### Warranty Statement

### 1.00 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.), Puerto Rico, and Canada. This information is also included in the Operator's Maintenance and Owner's Warranty Information Booklet.

### 1.01 NEW VEHICLE LIMITED WARRANTY

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 exclusions as specified in this document.

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

### 1.02 LIMITATIONS

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

This Warranty does not apply to engines, Allison or Twin Disc transmissions, tires, or other components or parts that are not manufactured by Company and that are warrented directly by their respective manufacturers. With respect to the foregoing, Company makes no warrenty 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, IN COMPANY 'S SOLE DISCRETION, 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 to an authorized Dealer for inspection and repair or replacement of any defect in material or workmanship occurring within the applicable

The vehicle must be maintained and serviced according to the prescribed schedules outlined in the Driver's/Operator's and Maintenance Manuels. 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 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.

### 1.03 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.

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.

### Coverage Descriptions

Coverage includes all factory-installed steer axles; drive axles; tag axles; and pusher axles. Excludes any axle installed by a dealer or body builder.

Coverage includes axle housing, carrier assembly, differential assembly, power divider, axle shafts, and gaskets and seals. Excludes suspension and torque rod brackets, tie rod ends, wheel end equipment, wiring, yokes, and attaching hardware.

A pusher axie is a non-driven, weight-bearing axie that can be raised when not required to bear a portion of the load. Since the pusher exie can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

### Steer Axle

Coverage includes I-beam, steering knuckles, differential on drive steer axle, spindles, kingpins, kingpin bearings and steering arms. Excludes wheel end equipment, tie rod ends, steering linkage components, kingpin bushings, and king pin seals. Tag Axle

A tag axle is a non-driven, continuous weight-bearing axle. Since the tag axle can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

Only Freightliner LLC's private brand-label (Alliance Brand Parts), Mopar (Sterling Bullet only), and Furukawa (\$1L360 Model only) batteries will be warranted. Any other brand of battery is excluded from Company coverage. Claims for all other brands must be submitted directly to the supplier. Warranty coverage includes the battery

### Basic Body

Coverage includes body emergency lighting and controls; hinged and rollup compartment doors; body trim; body lighting and controls; body electrical systems.

### Basic Chassis

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time, or distance or hours, or listed separately on each new vehicle warranty coverage chart.

### Basic Vehicle

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time or distance, or listed separately on each nicle warranty coverage chart.

### **Body Electrical**

Coverage includes body wiring harness(es) only.

### **Body Structure**

Coverage includes compartments and body panels; hinged compartment doors; fire pump closure; body frame and sub-frame, if applicable. Excludes surface corrosion caused by chips or scratches. **Body Structure and Corrosion** 

Coverage includes compartments and body panels; hinged compartment doors; fire pump closure; body frame and sub-frame, if applicable. Excludes surface corrosion caused by chips or scratches. Brightwork Coverage includes all factory-installed components with chrome, polished aluminum, or polished stainless steel

### surfaces. Excludes any damage to bumper, backside of bumpers, and concealed or inner surfaces. Cab Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cab and integral sleeper structure and sleeper box (if applicable) due to corrosion from within. Excludes all conditions of rust or corrosion that has not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chins or scretches

### Cab Structure

Coverage includes cab and integral sleeper structural components, structural components of factory installed sleeper boxes (if applicable), sheet metal panels, doors, and hoods. Excludes all bolt-on components including door and hood hinges, latches, guides, and other mounting hardware.

### Corrosion

Coverage provides warranty against corrosion to any metal or metal alloy part of the vehicle. Rust or corrosion to specific components and/or caused by certain conditions are excluded from all Company warranty coverage and will not be paid under Basic Vehicle, Cab Structure, Cab Corrosion, or Aftermarket Parts Warranty.

- Exclusions to corrosion warranty include, but are not limited to, the following: . Corrosion caused by general rust (for example, rust on the unlinished backside of a humber)
- Surface rust caused by chips or scratches in the paint or chrome surfaces
- Corrosion caused by high-pressure washing, severe wash solutions, cleaning solvents, detergents, compounds
   Corrosion caused by salinity in the environment or corrosive salts and/or chemicals used on the road surface.
- Corrosion caused by acid rain or other industrial fallout
- · Corrosion due to improper prevention measures during storage or use

- Corrosion or rust on tone rings, rotors or drums (rotor exclusion does not apply to hydraulic discs with Magna-
- Corrosion due to environmental damage (including ocean spray); airborne fallout (includes chemicals, tree sap, etc.), or other atmospheric conditions or other acts of nature
- · Corrosion due to improper use, misuse or abuse, negligence, including improper or insufficient maintenance Cowl Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cowl due to corrosion from within. Excludes all conditions of rust or corrosion that have not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scretches. Cowl Structure

Coverage includes cowl structural components, sheet metal panels, and hood. Excludes all bolt-on components including hood hinges, latches, guides, or other mounting hardw Crossmembers

Coverage includes crossmembers, gussets, and huck-mounting bolts that attach gussets to crossmembers and gussets/crossmembers to frame rails. Excludes any bolt-on item attached with either conventional or buck bolts.

Coverage includes driveshaft tubing, U-joints, yokes, support bearings, and splines.

Coverage includes transmission, (except Allison transmissions) steer axie(s), drive exie(s), and transfer case. Excludes tag axle(s), pusher axle(s), driveline, and U-joints. Frame Ralis

Coverage is limited to breaking or cracking of factory installed frame rails, frame rail liners, frame rail extensions, and any item(s) factory welded to them. Excludes all bolt-on items regardless if attached with conventional or huck

An incomplete vehicle which may be ordered with or without engine and or major drive train components; warranty coverage includes all components as specified in the specific build specification.

### Off Road On-Site Assistance

Coverage is exclusively available for off road vehicles that are prohibited from use on public streets. If this coverage is provided, it will be specifically included in the coverage table as a separate category. Coverage includes on site assistance and/or equipment transportation to the nearest authorized repairing location for a Daimler Trucks North America LLC warrantable repair.

### Paint (Body, Cab, & Cowl)

Paint coverage excludes lack-of gloss issues on vehicles painted with low gloss colors; the underside of hoods and roof and side mounted air fairings; and any damages to the paint or painted surface such as chips and scratches.

Coverage includes all factory-painted exterior body surfaces. Warranted against orange peel; pealing/ delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

Coverage includes all factory-painted exterior surfaces (except those included in chassis paint coverage). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

### Cowl Paint

Coverage includes all factory-painted exterior surfaces of cowl structure (except those included in chassis paint). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

### Paint, Chassis (Chassis Paint)

Coverage includes all factory painted surfaces on frame ralls, crossmembers/gussets, front and rear bumpers, suspension components, power train components, drivelines, fuel tanks, air tanks, wheel end equipment, tool boxes, battery boxes, access steps, and attaching brackets and hardware. Warranted against peeling or nonudes U-joints and any damages to the paint or painted surface such as chips and scratches. Towing/Roadside Assistance

Coverage includes roadside assistance or towing (to the nearest authorized repair location) for a Daimler Trucks North America LLC warrantable repair in a vehicle-down situation that prevents the safe and lawful operation of the vehicle. If this coverage is provided, it will be specifically included in the coverage table as a separate category. Transfer Case Assembly

Coverage includes housing and all internally lubricated parts

Coverage includes housing and all internally lubricated parts, electric/air shift/control units, valves, gaskets, and seals. Excludes broken synchronizer pins, PTOs, transfer case(s), airlines, gauge senders, yoke(s), clutch and clutch control components including clutch brake. Excludes Allison automatic transmissions and Twin Disc Automatic

### Wheel End Equipment

Coverage includes brake components, wheels, hubs, drums, rotors, wheel seals/ bearings, slack adjustors, and attacking hardware.

### FREIGHTLINER LLC **CUSTOMER PROTECTION PLANS**

### Class 8 Vehicles (Linehaul/Longhaul applications, prices vary for other vocations) Level II Warranty

Buggested Retail Price Sheet (USA)														Pric	es in eff	ect April	1, 2010
							C	overage	Options	: Time a	nd Miles	ige					
Component			Two	Years			Three	Years			Four	Years		Γ	Five	Years	
	Miles	50K	100K	160K	200K	50K	100K	150K	200K	50K	100K	150K	200K	60K	100K	150K	200K
												<del></del> .	~ <del></del>				
	Codes	<u> </u>															
Selected Components Coverage		l												١.			
Climate Control System	WAM	\$ 160	\$ 185	\$ 210			\$ 415				\$ 520						
Starter / Alternator	BAW	87	98	113	128		200		261	226	261	298	337				466
Steering	WAC	88	110	120	129	153	174	200	226	218	249	287	325		331	382	432
Cooling	WAD	91	111	128	172	170	195	224	291	238	272	314	450		556	411	499
Suspension Front & Rear	WAE	74	103	115	127	146	169	234	278		242	289	343		331	384	412
All selected options	V	500	607	686	816		1,153	1,353	1,571	1,369	1,544	1,758	2,100		2,049	2,338	
Basic Ventcle - 3 YRS. INCLUDES		998	1237	1476	1653		2868	3317	3766		3753	4294	4919			5215	5931
Ailiance Batteries . **	WAS	39	45	52	58		63		87			130	141		183	238	266
Cab & Hood- "	WAQ	60	60	60	60		141	141	141				246		387	387	387
Towing**	WAG		Julimite			2 Years/				3 Years				4 Years			575
Cab Guard Removal***	WAV		Jalimilo			2 Years/	Unlimite	d Miles	118	3 Years	Unlimite	d/Miles	231	4 Years	/Uniimite	d Miles	344
	WAV	5 Years	<u>Molimite</u>	ed Miles	511			·									
Transmission^						l								1			
Allison 4000 RDS <sup>^</sup>	WAK-1CW	5 Years	Λuπlimite	ed Miles	475									1			
Allison 4000 RDSR <sup>A</sup>		5 Yeara			526									1			
Allison 4500 RDSA - SEE HULO	WAK-1CX	5 Years	/Unlimite	ed Miles	675	AMM	lui me	WT									
CPP Level II Supplemental****	ĸ								-								
Frame Ralls/ Crossmembers Upgrade	WA1-001	6 Years	1750,000	miles	89									l			İ
Transmission Upgrade Eaton/Fuller	WAK-18F	3 Years	/300,000	) miles	242									l			
Axles Upgrade	WAL-039	3 Years	/300,000	) miles	103	L				L							

<sup>&</sup>quot;"Towing includes up to \$550 US (or Canadian equivalent) maximum charge, per occurrence, for a vehicle defect that prevents its safe and lawful operation.
""Warrantable fellure must be covered by Basto or Extended Basic Vahicle coverage in effect at time of fellure; removal must be necessary to perform repairs.
"""Avillable only on vehicles with maximum GVWR of 39,000 on 2 axtes, 60,000 ibs on 3 axies, or 70,000 ibs on 4 axies, ""Attaon requires use of Atilison Approved TES 295 transmission fluid and Genuine Aliison Filters.

Customer protection plans must be registered within 80 days of in-service date.

A late fee of 1.5 % per month will be charged after the 90-day period.

A flat tabe fee of 20% will be charged after 1 year from the in-service date.

Fees pald for extended coverage are not refundable.

\* Engine and transmission coverage must be registered within 180 days of in-service date.

\* THESE ITEMS ARE INCLUDED IN BASE BID.

EC-046 (April 2010)

m.1. mattern

MATHENY MOTOR TRUCK CO. P.O. BOX 1304 PARKERSBURG, WV 26102-1304



MATHENY MOT

Established 1922 3rd & Ann Streets • P.O. Box 1304 Parkersburg, WV 26102-1304 (304) 485-4418 • (800) 284-4418 (304) 485-2577 fax www.mathenymotors.com

May 4, 2011

### STATE OF WEST VIRGINIA **DIVISION OF HIGHWAYS**

### **ALLISON EXTENDED WARRANTY:**

The only extended available is to extend the warranty from the standard 3 year warranty to a 5 year warranty. The additional charge for this warranty is \$325.00 each truck.

To qualify for the extended warranty WVDOH must use TES-295 Transmission Fluid or approved equal.











# Color Sarket Sale - Ook Sale - Oo

Year / Mileage		<b>EWI</b>	EMI = (Basic)		<b>电影影响</b>	EW2 = (Go	==EW2=(Gold Minus)=	· · · · · · · · · · · · · · · · · · ·		EW3 (Gold Plus)	d Plus)			EW4 [P]	EW4 (Platinum)	AND THE STREET SHOWS
	\$ 0 Per event	Code	5.0 Per \$300 Per Code event Code	Code	CO-11-15-11-11-11-11-11-11-11-11-11-11-11-	12.00		Code	\$ 0 Per event	\$ code	\$ 300 Per event	Code		epoo	\$ 300 Per Code event	Code
Vocational Warranties				¥2.5							1. 1. 1. 1.					
5/200,000	\$1,600	WAL-561	\$1,600   WAL561   \$1,300   WAL565	WAL565	\$2,650	WAL562	\$2,350	WAI-566	W 051.6\$	AI-563	\$2,850	VAI-567	\$4,500	W/AI-564	\$4,200	WAL562  \$2,350   WAL566  \$3,150   WAL563  \$2,850   WAL567  \$4,500   WAL564  \$4,200   WAL568
7/250,000	\$2,150   WAL569   \$1,700   WAL573	VAL-569	\$1,700	WAL573		WAL570	\$3,400	WAI-574	\$4,200 \	AL571	\$3,750	VAI-575	\$6,000	WA1572	\$5,550	\$3850 WALS70 \$3,400 WALS74 \$4,200 WALS71 \$3,750 WALS75 \$6,000 WALS72 \$5,550 WALS78
On-Highway Warranties					1 X X X X X X											
3/300,000	1 2615	<b>WAL657</b>	<b>\$615.</b>   WAL657   \$370   WAL661	WALSEL		WA1-658	\$750	WAI-662	\$1,500 W	/AI-659-	\$1,250	VAI-663	\$1,000   WA1658   \$750   WA1662   \$1,500   WA1659   \$1,250   WA1663   \$1,950   WA1660	WA1-660	\$1,700	\$1,700 WAL664
3/400,000	1 00F.18	VAI-665	\$1,100   WAL665   \$800   WAL669	WAL669	2358	W/AI-666	\$1,470	WAI-670	\$2,800 \	/AI-667	\$2,470	VAI-671	\$1,800   WALGGG   \$1,470   WALGJQ   \$2,800   WALGG7   \$2,470   WALG71   \$3,600   WALGGS	WA1-668	\$3,270	\$3,270 WAL672
3/500,000	\$1,700	WAL673	\$1,700   WAL673   \$1,350   WAL677	- WALST	2	WAL674	\$2,180	WAI-678	\$4,050 1/	Al-675	\$3,630	VAI-679	\$2,600   WALG74   \$2,180   WALG78   \$4,050   WALG75   \$3,630   WALG79   \$5,200   WALG76	WA1676	\$4,780	\$4,780 VAH680
4/400,000	\$1,300	VAI-681	\$1,300   WAL681   \$1,000   WAL685	WAL685	5.5	WAL682	\$1,600	WAI-686	\$3,200 V	Al-683	\$2,700 \	VAI-687	\$25100   WAL682   \$1,500   WAL686   \$3,200   WAL683   \$2,700   WAL687   \$4,100   WAL684	WA1684	\$3,600	-WAL688
4/500,000	\ 006'I\$	VAL-689	\$1,900   WAL689   \$1,550   WAL693	WAL693		WA1-690	\$2,430	WAL694	\$4,450 \( \text{M} \)	/XI-691	\$3,830	VAI-695	\$3,050   WAL690   \$2,430   WAL694   \$4,450   WAL691   \$3,830   WAL695   \$6,750   WAL692	WA1-692	\$5,130	=WA1696
5/500,000	\$2,100 WAL697 \$1,750 WAL701	VAI-697	\$1,750	WAL701		WAL698	\$2,750	WAL 702	\$4,900 W	/AI-699	\$4,150	VAL-703	\$\$,500   WALE98   \$2,750   WAL702   \$4,900   WALE99   \$4,150   WAL703   \$6,300   WAL700	WA1-700	\$5,550	\$5,550 WAL704

MATHENY MOTOR TRUCK CO. P.O. BOX 1304 PARKERSBURG, WV 26102-1304

### MATHENY MOTOR TRUCK CO. P.O. BOX 1304

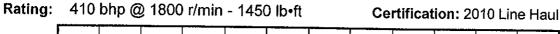
### DETROIT DIESEL

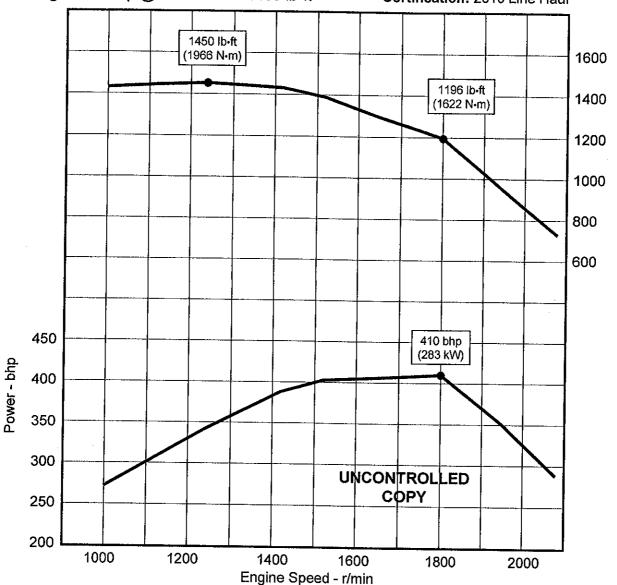
### PARKERSBURG, WV 26102-1304



### On-Highway Power

Model: **DD13** HDE 471903





Power output guaranteed within 5% at SAE J1995 conditions:
77\*F (25\*C) air inlet temperature; 29.31 in. Hg (99kPa) dry barometer;
100\*F (38\*C) fuel inlet temperature; 853 specific gravity at 60\*F
Charge air cooler system pressure drop: 40 in. H<sub>2</sub>O (10 kPa)
Charge air cooler system temperature out: 109\*F (43\*C)
Air intake restriction: 10 in. H<sub>2</sub>O (2.5 kPa) Conversion Factors: Power: kW = bhp x 0.746 Aftertreatment Required Torque: N · m = lb · ft x 1.356 Exhaust Back Pressure: 60 in. H<sub>2</sub>O (15 kPa)

Certified by:		
•	Curve No.	E4-471X-35-05
Verified by:	Rev. / Date:	New / 01-22-10
·	 Sheet No.	1 of 2

### **On-Highway Specification Sheet**

General Data Model	D471.903	Cooling System (continued)		•
Number of Cylinders	e e	Cooling Index:		
Bore and Stroke – in. x in. (mm x mm)	5.20 x 6,14	< 8 bhp/ton ₼ 10 moh wind	speed - °F (°K)	447 (05)
	(132 v 166)	<ul> <li>o pripriori (a) 20 man wind</li> </ul>	sneed - "F ("K)	126 (70)
Displacement – in. <sup>3</sup> (L)	781.1 (12.8)	> 16 bhp/ton @ 30 mah win	d speed - °F /°K)	126 (70)
Compression Ratio	17.3	Williamum Fill Rate – gal/min (L/r	min)	2 1 (0)
Turbocharger	A	Deacranon (frie - Minutes		20
raio ocial goi	Asymmetrical, fixed	Minimum Drawdown Requireme	ent - % of total system	10
Camshaft	geometry + wstgate	Air System		
Charge Air Cooling	Air to Air	Maximum Ambient to Turbo Co	mpressor Inlet:	
Physical Data	/ (1 10 / )	May Tomospoles of Turks		15 (8)
Size: Model and Variant Dependant (D471.903):		Maximum Engine Air Intake Res	Compressor inlet - °F (°C).	131 (55)
Length – in. (mm)	58.4 (1484)	Dirty Air Cleaner in H.O./	kPa)	00 (5.5)
vy(ot) – in. (mm)	51 3 /120//\	Clean Air Cleaner - in HaO	(kPa)	22 (5.5)
Height – In. (mm)	53.0 / 13/6\	Max. Air Compressor Inlet Rest	riction:	10 (2.5)
Weight, Dry – Ib (kg)	. 2540 (1152)	Dirty Air Cleaner in, H <sub>2</sub> 0 (k	(Pa) – single cylinder	25 (6.2)
Weight, Wet - Ib (kg) Center of Gravity Distance:	. 2628 (1192)	Cilding Air Flow:		
From R.F.O. Fly. Hsg. (x axis) – in. (mm)	26 4 (670)	(1800 r/min) ~ ft³/min (m³/mi	n)	711 (20.1)
Above Crankshaft (y axis) – in. (mm)	. 40.4 (0/U) 17.4 (441)	1 1 2 4 V 1/10 (D) — 17 7 M(A) 1 M 7 M(A	n)	E24/4771
Right of Crankshaft (z axis) - in. (mm)	-0.8 (-20)	(1240 f/min) – ft*/min (m*/mi	n)	E00 (44 4)
Mechanical Data	• •	Air Mass Flow (ib/min) = Volume	tric Air Flow (ft /min) x 0.072	!
Thrust Bearing Load Limit, Continuous - Ib (N)	. N/A	Air Mass Flow (kg/min) = Volume	etric Air Flow (m³/mln) x 1.15	7
Inrust Bearing Load Limit, Intermittent – Ib (N)	. N/A	Max. Turbocharger Compressor	Out Temperature:	
ruei System		@ 9482 ft (3000m) - °E (°C)	out romporating.	428 (220)
Fuel Injector	ACRS	Lumbechänger Compressor Out T	amp (ATI=25°C)·	•
Max. HP Pump Fuel Inlet Temp °F (°C)	. 194 (90)	(1800 r/min) ~ °F (°C)		360 /4991
Fuel Temperature Rise @ Rated - °F (°C) Max. fuel inlet restriction at engine inlet, inHg (mbar)	. 54 (30)	( (520 f/min) = *F (*(:)		200 ((00)
Max. positive fuel restriction at engine unlet, inHg (mbar)  Max. positive fuel restriction at engine outlet, inHg (mbar)	10.3 (350)	(1270 Million) - F ( C)		2/4/1721
ruei riller Size, Primary - mycrons	100	rainocharger Compressor Out Pre	SSUIC (ATT=25°C APT=.4kPa)	•
Fuel Filter Size, Secondary - microns (Requirement)	5 (98%)	(1800 r/min) in.Hg (kPa-gage	3)	61.5 (200)
Gear Pump Fuel Flow:		(1920 MMI) IN HO (KPA-GAGA	<b>)</b>	60 4 (004)
Full Load (1800 r/min) gal/hr (L/hr)	237 (900)	(1240 r/min) in.Hg (kPa-gage	}}	52.7 (179)
Zero Load (1800 r/min) gal/hr (I /hr)	221 (040)	Max. Manifold Pressure – In Hg ( Minimum Intake Pipe Diameter –	kra)	69 (234)
idle Speed (600 r/min) gal/hr (L/hr)	92 (350)	Maximum Charge Air Cooler Sys	In. (mm)	5 (127)
Fruck Fuel Supply Line Flow:		Pressure Drop – in Hg. (kPa)	tein Total.	2 (10)
Full Load (1800 r/min) gal/hr (L/hr)	124 (470)	Max Anibient to CAL Diliter Lemn	Diff (A/C After Tamb) of /e/	n 20/40s
Zero Load (1800 r/min) gal/hr (L/hr)	127 (480)	Maximum Crankcase Pressure	in. H <sub>2</sub> 0 (kPa)	24/06)
Full Load (1200 r/min) gal/hr (L/hr) Idle Speed (600 r/min)	106 (400)	EXHAUSE SYSTEM		2.4 (0.0)
ubrication System	90 (340)	Exhaust Flow - before Aftertreatr	nent (sea level):	
Oil Pressure at (2000 r/min) - Ib/in 2 (kPa)	67 (460)	(1800 r/min) – ft3/min (m3/mi	nì	1519 (43.0)
Oil Pressure at Low Idle — Iblio 2 /bDo) eog pou	an ianai	(1940 Millim) — K3/min (m3/mi	n)	1/1///// 1/
Max. In Block Oil Temperature - °F (°C)	257 (125)	1 1240 (/Min) — 113/Min (M3/Mi	n)	1184 (33.5)
On Flow (@ Fullio) - gai/min (C/m/n) @ 1800 RPM	44 (165)	Exhaust Temperature – before Af (1800 r/min) – °F (°C)	nenreatment (sea level):	
Oll Pan Canacity High Limit = at (1)	07 (05)	(1520 r/min) = °F (°C)		746 (397)
Oil Pan Capacity, Low Limit ~ qt (L)	32 (30)	(1240 r/min) – °F (°C)		792 (422)
Total Cityline Oil Capacity with Filters – of (1)	43 (41)	Waxiinuffi Back Pressure in Ho	(kPa)·	
Single Oil Filter – microns @ 50% efficiency lectrical System (Engine only w/o Parasitic Load)	15	With 1-Box Aftertreatment Sv:	stem – New	5.7 (19.4)
Recommended Battery Capacity (CCA @ 0°F):		YVIIII Z-BOX Attertreatment Sv:	stem – New	7 2 (24 2)
12 Volt System Ahove 32°F	2100	Max Turbine Temperature (ali alia	hides) ) = °F (°C)	1328 (720)
12 Volt System Below 32°F	2800	Recommended Exhaust Pipe Dia:	meter:	
maximum Resistance of Starting Circuit, mohim	0.8	Single-in.(mm)		5 (127)
entification information		Max. Temp. Loss between engine	and ATS injet,	
Certification Approval - Line Haul	EPA 2010	During Parked Regen at 20-3 Performance Data	o.C amplent temb. – "F ("C)	54 (30)
coling System		Friction Power:		
Engine Heat Rejection to Coolant:		(2000 r/mln) – hp (kW)		99 /661
(1800 r/min) – Blu/min (kW)	10871 (191)	( LOUI) (/min) hin (k\A/\		FO (0.3)
(1520 r/mn) – Blu/min (kW) (1240 r/min) – Btu/min (kW)	9818 (172) 7069 (400)	Andriage Capability = It (m)		40000 (0000
Charge Air Cooler Heat Rejection:	1003 (138)	TOTALO EVOLUTION AT OUR FAMILE - I	n·π /Mm)	4446 /46401
(1800 r/min) – Blu/min (kW)	3206 (56.3)	IGIG ODGEO ~ [VIIII]		600 000
(1520 r/min) ~ Btu/min (kW)	2888 /60 A\	Engine Crankcase Vent System		Open w/ spinr
(1240 r/min) – Blu/min (kW)	2273 (39.9)			
_ (IL TO WITHIN DIGHT [KVV]		Engine Speed	Rated Power	Rated Torque
Coolant Flow (Minimum 90% of Published Flow)		r/min	bhp (kW)	Lb-ft (N·m)
(1800 t/min) - gal/min (L/min)	139 (527)			
(1800 r/min) – gal/min (L/min)	123 (464)	2080	287 (214)	725 (983)
Coolant Flow (Minimum 90% of Published Flow): (1800 r/min) gal/min (L/min)	123 (464)		, ,	725 (983) 944 (1270)
Coolant Flow (Minimum 90% of Published Flow): (1800 //min) gal/min (L/mln)(1520 //mln) gal/min (L/mln)(1240 //min) gal/min (L/mln)	123 (464)	2080 1950	350 (261)	944 (1279)
Collant Flow (minmum 90% of Published Flow): (1800 r/min) – gal/min (L/min). (1520 r/min) – gal/min (L/min). (1240 r/min) – gal/min (L/min). Engine Radiated Heat Btu/min (KW)	123 (464) 100 (378) 526 (11)	2080 1950 1800	350 (261) 410 (306)	944 (1279) 1196 (1622)
Coolant Flow (Minimum 90% of Published Flow): (1800 //min) ~ gal/min (L/min). (1520 //min) ~ gal/min (L/min). (1240 //min) ~ gal/min (L/min). Engine Radiated Heat Btu/min (kW) Thermostat: Start to Open ~ *F (*C).	123 (464) 100 (378) 526 (11)	2080 1950 1800	350 (261) 410 (306) 406 (303)	944 (1279)
Coolant Flow (minimum 90% of Published Flow): (1800 r/min) – gal/min (L/min). (1520 r/min) – gal/min (L/min). (1240 r/min) – gal/min (L/min). Engine Radiated Heat Btu/min (kW). Thermostat: Start to Open – °F (°C). Fully Open – °F (°C). Minimum Water Pumo Inlet Pressure	123 (464) 100 (378) 526 (11) 189 (87) 207 (97)	2080 1950 1800 1650 1520	350 (261) 410 (306)	944 (1279) 1196 (1622)
Coolant Flow (minimum 90% of Published Flow):  (1800 t/min) – gal/min (L/min).  (1520 t/min) – gal/min (L/min).  (1240 t/min) – gal/min (L/min).  Engine Radialed Heat Btu/min (kW).  Thermostal:  Start to Open – *F (*C).  Fully Open – *F (*C).  Minimum Water Pump Inlet Pressure  (open circuit) – Ibdin * (kPa)	123 (464) 100 (378) 526 (11) 189 (87) 207 (97)	2080 1950 1800	350 (261) 410 (306) 406 (303)	944 (1279) 1196 (1622) 1294 (1754) 1387 (1881)
Coolant Flow (Minimum 90% of Published Flow):  (1800 //min) ~ gal/min (L/min).  (1520 //min) ~ gal/min (L/min).  (1240 //min) ~ gal/min (L/min).  Engine Radiated Heat Btu/min (kW).  Thermostat:  Start to Open ~ *F (*C).  Fully Open ~ *F (*C).  Minimum Water Pump Inlet Pressure  (open circuit) ~ lb/in. ² (kPa)  Engine Coolant Capacity ~ ot /! )	123 (464) 100 (378) 526 (11) 189 (87) 207 (97)	2080 1950 1800 1650 1520	350 (261) 410 (306) 406 (303) 402 (299) 388 (289)	944 (1279) 1196 (1622) 1294 (1754) 1387 (1881) 1433 (1943)
Coolant Flow (minimum 90% of Published Flow):  (1800 r/min) – gal/min (L/min).  (1520 r/min) – gal/min (L/min).  (1240 r/min) – gal/min (L/min).  Engine Radialed Heal Btu/min (kW).  Thermostat:  Start to Open – *F (*C).  Fully Open – *F (*C).  Minimum Water Pump Injet Pressure  (open circuit) – Ib/in ² (kPa).	123 (464) 100 (378) 526 (11) 189 (87) 207 (97)	2080 1950 1800 1650 1520 1420 1330	350 (261) 410 (306) 406 (303) 402 (299) 388 (289) 366 (273)	944 (1279) 1196 (1622) 1294 (1754) 1387 (1881) 1433 (1943) 1444 (1958)
Coolant Flow (minimum 90% of Published Flow):  (1800 t/min) – gal/min (L/min).  (1520 t/min) – gal/min (L/min).  (1240 t/min) – gal/min (L/min).  Engine Radiated Heat Btu/min (kW).  Thermostat:  Start to Open – *F (*C).  Fully Open – *F (*C).  Minimum Water Pump Inlet Pressure  (open circuit) – Ib/in.² (kPa).  Engine Coolant Capacity – qt (L).  Minimum Pressure Cap – Ib/in.² (kPa).	123 (464) 100 (378) 526 (11) 189 (87) 207 (97) 0 (0) 24.2 (22.9) 5.2 (105)	2080 1950 1800 1650 1520 1420 1330	350 (261) 410 (306) 406 (303) 402 (299) 388 (289) 366 (273) 342 (255)	944 (1279) 1196 (1622) 1294 (1754) 1387 (1881) 1433 (1943) 1444 (1958) 1450 (1966)
Coolant Flow (minimum 90% of Published Flow):  (1800 t/min) – gal/min (L/min).  (1520 t/min) – gal/min (L/min).  (1240 t/min) – gal/min (L/min).  Engine Radiated Heat Btu/min (kW).  Thermostat:  Start to Open – *F (*C).  Fully Open – *F (*C).  Minimum Water Pump Inlet Pressure  (open circuit) – Ib/in.² (kPa).  Engine Coolant Capacity – qt (L).  Minimum Pressure:  (Radiator Inlet, dosed circuit) – Ib/in.² (kPa).	123 (464) 100 (378) 526 (11) 189 (87) 207 (97) 0 (0) 24.2 (22.9) 5.2 (105)	2080 1950 1800 1650 1520 1420 1330 1240	350 (261) 410 (306) 406 (303) 402 (299) 388 (289) 366 (273) 342 (255) 310 (231)	944 (1279) 1196 (1622) 1294 (1754) 1387 (1881) 1433 (1943) 1444 (1958)
Looiant Flow (minimum 90% of Published Flow):  (1800 r/min) – gal/min (L/min).  (1520 r/min) – gal/min (L/min).  (1240 r/min) – gal/min (L/min).  Engine Radialed Heat Btu/min (kW).  Thermostat:  Start to Open – *F (*C).  Fully Open – *F (*C).  Minimum Water Pump Injet Pressure  (open circuit) – Ib/in.² (kPa).  Engine Coolant Capacity – qt (L).  Minimum Pressure Cap – Ib/in.² (kPa).  Maximum Pressure:  (Radiator Inlet, closed circuit) – Ib/in.² (kPa).	123 (464) 100 (378) 526 (11) 189 (87) 207 (97) 0 (0) 24.2 (22.9) 5.2 (105)	2080 1950 1800 1650 1520 1420 1330	350 (261) 410 (306) 406 (303) 402 (299) 388 (289) 366 (273) 342 (255)	944 (1279) 1196 (1622) 1294 (1754) 1387 (1881) 1433 (1943) 1444 (1958) 1450 (1966)
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Coolant Flow (minimum 90% of Published Flow):  (1800 r/min) – gal/min (L/min).  (1520 r/min) – gal/min (L/min).  (1240 r/min) – gal/min (L/min).  Engine Radialed Heal Btu/min (k/W).  Thermostat:  Start to Open – "F ("C).  Fully Open – "F ("C).  Minimum Water Pump Injet Pressure  (open circuit) – Ib/in.² (kPa).  Engine Coolant Capacity – qt (L).  Minimum Pressure Cap – Ib/in.² (kPa).  Maximum Pressure:  (Radiator Inlet, closed circuit) – Ib/in.² (kPa).  Max. Allowable Eng. Temp - "F ("C) (DDEC Reported)  Check Engine Light - "F ("C).	123 (464) 100 (378) 526 (11) 189 (87) 207 (97) 0 (0) 24.2 (22.9) 15.2 (105) 10 (207) 130 (110)	2080 1950 1800 1650 1520 1420 1330 1240	350 (261) 410 (306) 406 (303) 402 (299) 388 (289) 366 (273) 342 (255) 310 (231) 271 (202)	944 (1279) 1196 (1622) 1294 (1754) 1387 (1881) 1433 (1943) 1444 (1958) 1450 (1966) 1442 (1954) 1425 (1932)
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Coolant Flow (Minimum 90% of Published Flow):  (1800 r/min) - gal/min (L/mln).  (1520 r/min) - gal/min (L/mln).  (1240 r/min) - gal/min (L/mln).  Engine Radialed Heat Btu/min (k/W).  Thermostat:  Start to Open - *F (*C).  Fully Open - *F (*C).  Minimum Water Pump Injet Pressure  (open circuit) - Ib/in.² (kPa).  Engine Coolant Capacity - qt (L).  Minimum Pressure Cap - Ib/in.² (kPa).  Maximum Pressure:  (Radiator Inlet, closed circuit) - Ib/in.² (kPa).  Max. Allowable Eng. Temp - *F (*C) (DDEC Reported)  Check Engine Light - *F (*C).	123 (464) 100 (378) 526 (11) 189 (87) 207 (97) 0 (0) 14.2 (22.9) 5.2 (105) 60 (207) 130 (110) 134 (112) 137 (114)	2080 1950 1800 1650 1520 1420 1330 1240	350 (261) 410 (306) 406 (303) 402 (299) 388 (289) 366 (273) 342 (255) 310 (231) 271 (202)	944 (1279) 1196 (1622) 1294 (1754) 1387 (1881) 1433 (1943) 1444 (1958) 1450 (1966) 1442 (1954) 1425 (1932)

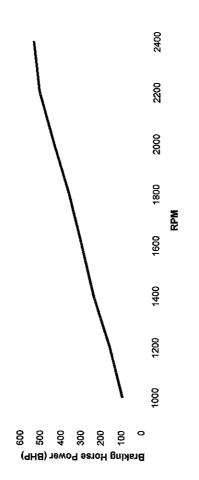
## 

The standard integrated Jacobs® Engine Brake delivers outstanding braking horsepower and extremely quiet operation.

Up to 546 Braking Horsepower

NEW integrated Jake<sup>®</sup> Brake designed for extremely

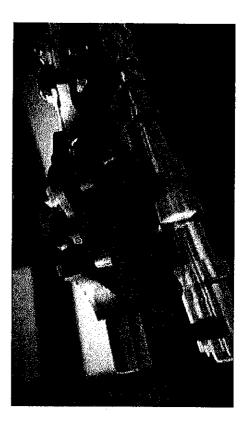
quiet operation



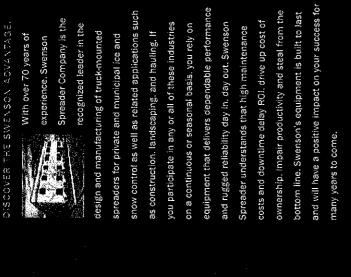
**DD13 Braking Horsepower** 

- · Three levels of braking retarding power:
- · Low (2-cylinder)
- Medium (4-cylinder)
- · High (6-cylinder)

MATHENY MOTOR TRUCK CO. P.O. BOX 1304 PARKERSBURG, WV 26102-1304



## ANYTIME, ANYWHERE,

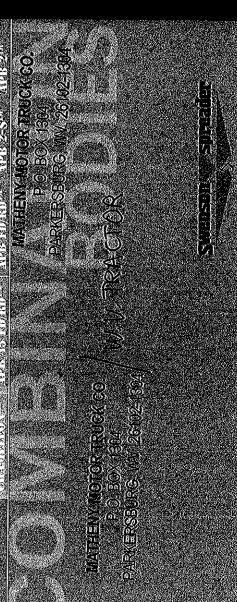


## TAKE THE SWENSON CHALLENGE.



If you are considering a new piece of equipment, we encourage you to take

Simply take any product designed and built by Swenson Spreader Company and compare it feature by feature with any other similar product available. You will quickly discover for yourself the Swenson Value Advantage.



## HOW TO CHOOSE THE RIGHT SWENSON COMBINATION BODY FOR YOU.

With a complete incesting sed contracts of hose from Sections Italiae, thousand conduct nesses than a conduct to the conduct of the conduct o

### CONSIDER THE POSSIBILITIES OF SWENSON COMBINATION BODIES

We can be considered and the considered of the c

### or hauling.

Swenson Combination Bodies are available with front or rear discharge as well as a combination of the two for coptimum flexibility and productivity year round. What's more, Swenson combination bodies can be specified in standard.



and accessories designed for specific tasks. Compare these features and benefits to competitive equipment and discoveration Swenson Value Advantage.

\*Front discharge requires belt over chain

Aggregate Gravel (front and rear discharge)

Leaf Collection Wood Chipper Box

Landscape Stone

Gravel (rear discharge)

Rear Discharge (Paving) Rear Discharge (patching)

### (महरमहरहरू) प्रमुख्या प्रमुख्या प्रमुख्य - रू × × FD w/optional RD | FD w/optional RD FD only RD only | FD only RD only SWENSON COMBINATION BODY APPLICATIONS "Ease of maintenance, reduced weight Class 6 (19,501-26,000 GVW) Class 5 (16.001-19.500 GVVV) Class 7 (26,001-33,000 GVW) Between Cab & Body Body Side Mount Stoping Sides-Permanent Stoping Sides-Folding Floor Pre-Wet Tanks (optional) 120 to 160 Gallon Capacity Screen Kit-Single lift point Remote Conveyor Switch Class 8 (33,001 + GVW) Cross Member Support Cross Member-less Fold Down Sides Front & Rear Discharce\* Removable Conveyor Cab to Axle Distance 72"-120" Body Design - Features Operating System Hváraulic Mounting Style: Front Discharge\* Rear Discharge Slooing Sides-Fr Cor-Ten Steel Discharge System Dry Material Salt

#### MULTI PURPOSE CONTRACTOR BODY

# OHWWIENDOZ<sub>AM</sub>

GENERAL SPECIFICATIONS

Standard Body Length:

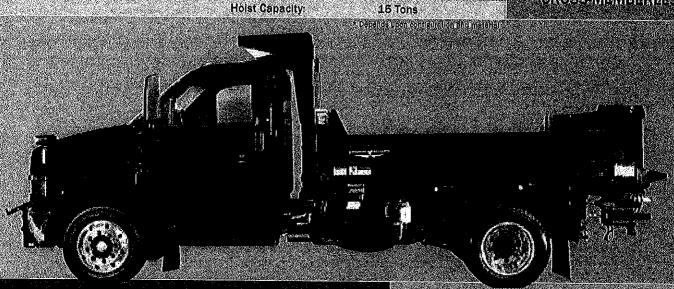
9 Feet, 11 Feet

Capacitys

2(6-10:0 Grible Yards)

15 Tons

OTRUCK CLASSIFICATION #56 OGROSSHMEMERHERSHORSIGN





Designed and engineered with the help of landscapers and municipalities across North

America, Swenson's Multi Purpose Contractor Body is a wonder to behold. Dubbed Chameleon for its ease of changeovers from one operation to another, this advanced technology workhorse brings increased efficiency,



flexibility and productivity to any operation. It instantly replaces the need for six pieces of equipment-flat bed, dump body, spreader,

collection box, mulch conveyor, and deep body, with one single easy-to-own and operate unit. Ideal for landscapers, contractors and municipalities that work with or haul a wide variety of materials including sod, leaves, mulch, rock, dirt, sand, salt, shrubs, trees or debris.

\* Shown with optional Swenson equipment.

	PEATURES	BENEFITS
	Performance Advantages	
	Modular feed gate meters conveyed free flowing granular materials and bulkley materials	Conveys a veriety of malarials including agravisalt and stone allows for controlled mergring or rapid unload.
	Productivity Advantages	The state of the s
exolusive	Mujit Purpose čonivada, Babi unikoujaki vonvere Petviešn applications	Ellminates downtime by not naving to remove the body for different applications, financing between peasons
exclusive	Multitumes Contratorismis replace Mionarifine Expire con realists despionant	ભલ્કામિત્રજનાહ: અનુનિક્ષિત્રજનાના આવેલાનોલિકાનાહર, પ્રતાહક ક
	MultiPus examilies extension plate scover the conveyor whom notal muse	BrotenGathosonveyostomääilija Gemäreeldutti ähiullija sosartionis.
	idoarditeexaallyidilingan contactoaallyadilita joolala	Ellipudentes illovitoris iton metaloliilovanjas midde metalolis ileneoit
	Gentermounted 30' Wide belivoyey ghalinconveyor	Colvey diggerandurite damaigigh Iomnallaumade diggerandurite y
	tremovalitasija jididelovineittea. Olimineteesidesvalleamitekkosea. Olikulumpiksid	Allower Biotherithe Bythoric codic and Berellicies a rayoth mood
	The 90 <sup>1</sup> wide riet noon allows hadling of 4 <b>D.O.T.</b> Six pallets at one thrie	Plovides more hauling options
	Pšwayitill Shtsquiddlycoments Woweysithersdlylpinidle lljatiwellsiightsawsangkovotts shispotumakarids	Meximb costile amigshi adhig carel dhaqiiq sven sadhy
	Safety Advantages	

# ANDBAST

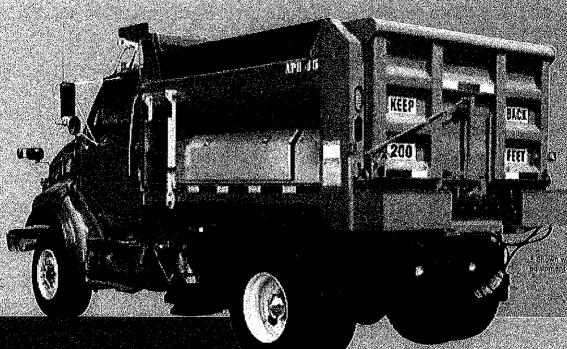
#### **SLOPED SIDE COMBINATION BODY OVERVIEW**

TRUCK CLASSIFICATION: 8-8-CROSS MEMBERLESS STRUCTURE: MID-SIZE AVAILABLE GENERAL SPECIFICATIONS

Standard Body Length: 8-15 Feet

Gapacity: 4:5-16:5 Cubic Yards

Hoist capacity: 20-40 Tons



Swenson Spreader's APB 45 FD (Front Discharge) and APB 45 RD (Rear Discharge) slope side combination spreader/dump bodies are the new benchmark of the combination body industry. These units combine the rock solid product features of the industry proven APB series with the industries most aggressive sloping side.

By combining the rugged 34" wide conveyor and Sure Slide<sup>TM</sup> 45 degree sides the APB 45 series bodies ensure all materials will flow to the conveyor without the need to raise the body. This key feature makes the APB 45 series especially well suited for applications working around bridges, low hanging obstructions and on uneven surfaces.

Built to last the APB 45 series is available with many customizable features to ensure reliable operation in various applications.

PEATURES  Performance Advantages Sloped dump body sidewalls provide external cevity for toolboxes or spray system	BENEFITS  Maximizės avallable space.
Sloped dump body sidewalls provide external cavity for toolboxes or spray system	
provide external cavity for topiboxes or spray system	Maximizės available space
	els estate
Productivity Advantages	
Direct drive hydraulic conveyor motor is reliable, easily serviced	Provides reliable drive operation while reducing maintenance
, and maintained	The second of th
Adjustalitatas Bratovillovas	Militates misteristive to:
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Nitrate treated telescopic cylinder	Extends the life and minimizes
with mounting cradic increases the wear-resistance and is	maintenance
corrosion resistant	
Tallnethvillarvegargilariz	Pedigeanieliikonjajonele.
potrici atti suntendici alco militoriomi distantifori	condition or the dog everyor. Your applymenting unemb.
Sloped dump body sidewalls	. Maximizes spreading operations
allow materials to flow to	by utilizing entire payload of
conveyor without raising bed allows complete clean-out	materials and minimizing clean-out.
Safety Advantages	
ICC lights with mounting harness	Provide operational safety and
provides high visibility that's easily installed.	easy installation.

#### FRONT DISCHARGE SLOPED SIDE COMBINATION BODY



APB 45 FD shown with optional equipment

Swenson Spreader's APB 45 RD (Front Discharge) slope side combination spreader/dump body is built specifically for ice control applications when it is necessary to spread in front of the rear tires for increased traction in icy or hilly conditions. An optional rear spinner can be added to

transform the unit into a combination front and rear-spreading machine for optimum flexibility and productivity. Swenson APB 45 FD units are built with a reliable direct drive motor which drives a belt over chain conveyor to the front discharge port. The

Swenson APB 45 FD performs a variety of operations ranging from lice control spreading, to rear asphalt patchwork, to paver loading, berming or hauling.



Front spinner provides increased traction

#### Renformance Advantages

High capacity front cross conveyor moves materials laterally to the side of the vehicle.

34" wide high temperature belt over chain easily conveys hitemperature asphalt patching materials:

Belt-over-chain smooths out the material output.

Front and rear sliding feedgate/ coal chute provides accurate material matering during operation

#### Productivity Advantages

Hi-temp belt sealers minimizes typical material build-up in chain links

Provides durable, reliable material spreading to front spinner.

Extends units operations to include hi-temperature material handling.

Provides more consistent spreading operation.

Minimizes material waste, provides better material control.

Keeps conveyor unit operational and requires less maintenance.

#### REAR DISCHARGE SLOPE SIDE COMBINATION BODY

The APB 45 RD is Swenson's rear discharge slope side combination spreader/dump body and includes a 20" rear mounted spinner that can be stored beneath the body or repositioned for outstanding rear spreading ice control. This technically advanced ice control system is also highly efficient and delivers precise uniform spread patterns up to 40 feet. The APB 45 RD features a rugged 34" wide conveyor, which moves materials rearward through

a silding coal chute type feed gate which can be adjusted incrementally for metering materials.



Adjustable 20" poly rear mounted spinner

# Performance Advantages Rear Discharge APB conveys Provides better material

Rear Discharge APB conveys material rearward through a removable sliding coal chute style feed gate.

conveying control.

Rear spinner assembly can be adjusted 6 inches vertically and 5 bostions horizontally.

Allows for precise spread pattern control.

#### Productivity Advantages

Rear spinner assembly easily pivots under-body when not in operation

Eliminates the need to remove spinner during non-spreading operations

20" polyurethane spinner disc extends the spinner life in corrosivé environments Requires little maintenance and provides better spreading performance



#### COMBINATION BODY OVERVIEW

TRÜCK CLASSIFICATION: 5-8 CROSS MEMBERED STRUCTURE MID-SIZE AVAILABLE CONTRACTOR OF THE STATE OF THE

Standard Body Length:

8-15 Feet

Capacity: Hoist capacity: 4.5-16.5 Cubic Yards

20-40 Tons



\* Shown with optional equipment

Swenson Spreader's APB FD (Front Discharge) and APB RD (Rear Discharge) combination spreader/dump bodies provide superior snow and ice control, plus reliable hauling and dumping. All APB models adapt quickly between operations to save time and maximize productivity. Designed specifically for 26,000+ lbs. GVW Heavy Duty trucks, these APB units incorporate a heavy-duty 34" conveyor in a rugged understructure style body design. The snow and ice control systems provide controlled spread rates as low as 75 pounds per mile and allow precise uniform spread patterns up to 40 feet.

The Swenson APB FD and RD models are built for heavy duty municipal applications and share a well-deserved reputation for rugged dependability, performance and reliability.

As with all Swenson products, each model can be specified in standard configurations or with options and accessories designed for specific tasks. Compare the features and benefits to competitive equipment to discover the Swenson Value Advantage.

#### (GV;[1849V4\baas)(GFF1849V4\abbasis)(arabaanakeV)

CONTRACTOR CONTRACTOR	
Performance Advantages	THE RESERVE OF THE PERSON OF T
Double acting tallgate with spreader chains provides two-way tallgate release; top opening and bottom opening controlled via chains	Allows unit to be used as standard dump body/spreader or positioned flat for extended bed length
Productivity Advantages	
Direct drive hydraulic conveyor motor is reliable, easily serviced and maintained	Provides reliable drive operations will be reducing maintenance
Adjustik aksekenasilaa Internendelmisterik endemitak akomayatmatakik	Motoike meteriellenyelts
Nitrate treated telescopic cylinder with mounting cradle increases the Wear resistance and is corrosion resistant	Extends the life and minimizes maintenance
drillatervilthiwensagailati politicalitically pikenden politicaliomablitudistory	Distriction of the second of t
Safety Advantages	
ICC lights with mounting harness provides high visibility that's easily installed	Provide operational safety and easy installation



APB FD shown with optional equipment

Swenson Spreader's APB FD (Front Discharge) combination spreader/ dump body is built specifically for ice control applications when it is necessary to spread in front of the rear tires for increased traction in

icy or hilly conditions. An optional rear spinner can be added to transform the unit into a combination front and rear-spreading machine for optimum flexibility and productivity. Swenson APB FD units are built with a reliable direct drive auger motor which drives

a belt over chain conveyor to the front discharge port. The Swenson APB FD performs a variety of operations ranging from Ice control spreading, to rear asphalt patchwork, to paver loading, berming or hauling,



Front spinner provides increased traction

#### Performance Advantages

High capacity front cross conveyor moves materials laterally to the side of the vehicle

34" wide high temperature pelt over chain easily conveys in temperature asphalt patching materials materials

Belt-over-chain smooths out the material output

Front and rear sliding feedgate/ coal chute provides accurate material metering during operation

Hi-temp beit sealers minimizes typical material build-up in chain Provides durable, reliable material spreading to front spinner

Extends units operations to include hi-temperature material handling

Provides more consistent spreading operation

Minimizes material waste, provides better material control

#### Productivity Advantages

Keeps conveyor unit operational and requires less maintenance

#### REAR DISCHARGE COMBINATION BODY



APB RD shown with optional

The APB RD is Swenson's rear discharge combination spreader/dump body and includes a 20" rear mounted spinner that can be stored beneath the

body or repositioned for outstanding rear spreading ice control. This technically advanced ice control system is also highly efficient and

delivers precise uniform spread patterns up to 40 feet. The APB RD features a rugged 34" wide conveyor, which moves materials rearward through a sliding coal chute type feed gate which can be adjusted incrementally for metering materials.



Optional heavy duty top grate screens with single



Adjustable 20° poly rear mounted spinne

#### iii a Maraha Performance Advantages

Modular Taligate allows quick conversion between metered feed gate to flat panel tallgate

Rear Discharge APB conveys material rearward through a removable sliding coal chure style feed gate.

Rear spinner assembly can be adjusted 6 inches vertically and 5 Provides better meterial conveying controls

operations

Provides true multi-seasonal

positions horizontally

Allows for precise spread pattern control

#### Productivity Advantages

Rear spinner assembly easily pivots under-body when not in operation

20" polyurethane spinner disc extends the spinner life in corrosive environments

Eliminates the need to remove spinner during non-spreading operations

Requires little maintenance and provides better spreading

### AMB 2-6W

#### SLOPED SIDE REMOVABLE CONVEYOR COMBINATION BODY

TRÜCK CLASSIFICATION: 6-8
 ÖRÖSS-MEMBERLESS DESIGN
 MID-SIZE-AVAILABLE

#### GENERAL SPECIFICATIONS:

Standard Body Length: 8-15 Feet

Capacity: 4:5:16.15 Cubic Yards\*

Hoist capacity: 20-40 Tons

\* Depends upon configuration





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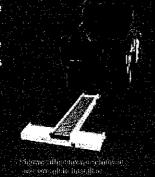
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Our cross-memberless combination body with sloped sides is specifically designed to eliminate material build-up and provide easier material clean out. The APB 2-S has all the rugged benefits of the APB on a cross-memberless underbody and a completely removable 24" wide conveyor. Removing the conveyor reduces body weight, makes maintenance a snap while extending the operating versatility. The conveyor system on the APB 2-S is safely mounted a full 6 inches below the bed

surface to minimize the potential for damage. The APB 2-S comes equipped with a simple coal chute-type

metering gate to regulate material flow and minimize material waste from the removable conveyor.

APB 2-S comes with a detachable rear 18" poly spinner that mounts conveniently to the conveyor and not the body.



# Performance Advantages Removable conveyor cover provides durable berner to BENEFILIS Extends the longevity of the conveyor by minimizing demage

provides durable barrier to protect the conveyor when not in operation

Slopedefrinjstrodychlarydla providerektoristic ydgyro? Codkote sodsprzyckytema

Quick Mount Spinner Assembly can be adjusted laterally

Provides precise spread pattern control

#### **Productivity Advantages**

Allistyczemogalijaconegoż systemellożetkiechilecconegoż "1895 achiecki Tsicini sije weldelene sveligis / especifyliya palodina teliy 760-5140035 (34

Sloped dump body sidewalls allow materials to flow to conveyor without raising bed allows complete clean-out Maximizes spreading operations by utilizing entire payload of materials and minimizing clean-

Powarskomryory, kniji) mongerka (dikšhoja ababy trabakanice) Filiabeit seinvoorblinero commonlyd scolatere Alfanyalish combinettonbools

Conveyor mounted spinner, rather than the truck frame, can be quickly attached and detached Minimizes installation and maximizes the trucks productivity

Hellyre movelal secure you Tystem temoticegedinerestementalité incherenquinquellerongenne charegoiremannessementelles

#### Safety Advantages

ICO lights with mounting harness provides high Visibility that's easily installed Provides operational safety and easy installation

t actual weight varies by length of conveyor

#### GENERAL SPECIFICATIONS

Standard Body Length:

8-15 Feet Capacity : The last

Hoist capacity:

4.6-46.5 Cubic Yards \*\*

20-40 Tons

OSTRUCK (GLASSIFICATION) - 15 18 OGOSSAMEMBERUESSEDESIGN OMIDISTÆ AVAIBABLE







Swenson offers the industry's first true cross-memberless combination body, the APB 2. The APB 2 is available in 8 to 15 foot lengths and utilizes all the benefits of the APB plus a completely removable 24" wide conveyor. APB 2 combines rugged reliability with reduced weight for optimum economy and operating versatility. APB 2 utilizes a unique removable conveyor system to increase payload capacity and reduce maintenance. The conveyor system on the

APB 2 is mounted a full 6 inches below the bed surface to reduce the potential for damage often associated with combination bodies. A rear spreader only unit, the APB

2 is equipped with a simple coal chute-type metering gate to regulate material flow from the removable conveyor. APB 2 comes with a detachable 18" poly spinner that mounts conveniently to the conveyor and not to the body. An optional barn door type tailgate allows for hauling of brush or other large objects.



10.1	FEATURES	BENEFITS
	Performance Advantages	
	Rémovable conveyor cover provides durable barrier to project the conveyor when not in operation	Extends the longovity of the conveyor by minimizing damage
	- Optick Mount Splantas/Associably reambas/adjucter/likiter/hy	triorieksgeenbergesahetterg. sontior
	Productivity Advantages	
Ĺ	Unique rémovable conveyor system allows the entire conveyor to be removed	Extends the vehicle net weight capacity by approximately: 700 \$ 1200 Lbs.*
	illatilkiastianksavjiklasvaitelyvit matentik	thougailer, leavels, etch ar Hitomoorig, the working goverhig meterial
	Lowered conveyor system is mounted a full olinches palpy the bad surface	Eliminates conveyor damage commonly associated with typical combination podices
	Constantion (Spains 1788 south) Allows in Collection and Camoval Allows in Collection and Camoval Allows in Spains (Collection) Stools	Allowstoccasythstellation and renovalstrings
	Conveyor mounted spinner, rather than the truck frame, can be culckly attached and datached	Minimizes installation and maximizes the trucks productivity.
	jstellyrentveldesonryge system	Mahichangoe pylogoriónnost obromovaldescarcyócsy.com while hindroolathus soog afato
	Safety Advantages	

provides high visibility (hat's easily installed

t Actual Weight varies by length of conveyor

OPTIONAL ITEMS	CHAMELEONIN	APB 45	FD/RD <sup>roi</sup>	APB F	D/RD <sup>TM</sup>	APB 2-S <sup>DI</sup>	APB 2 <sup>m</sup>
Top Grate Screens (w/Single Lift Point)			X			X	X
Right Prop	en la companya de la	Louis Sa Tarrat san me	<b>X</b>	)	(	<b>X</b>	X
Double Acting Cylinder		\$ 76.50	X	\$ 10 m	<b>(</b>	<b>X</b>	- X
Rear Conveyor Switch (On/Off Control)	Standard	akowa	<b>X</b>	<b>)</b>	<b>(</b> -	X	X
Air Operated Tailgate Control			X		<b>(</b>	X	X
Three Way Tailgate (Barn Door)	X	Make kara ka	X	To the sector of the	( at a series desertes s	X	X
Ladder (Installed)			X		<b>C</b> eros es.	X	X
Dual Flow Control Valve	X	w. collect with the	X	A rema approxi	 Owiest saws	X contesensativativativ	X
Control Valve Stand Kit	Χ		X	1 6 (12)	Call (S)	. X	X
Hi Temp Belt-Over-Chain*	Januaria et est et est est est est est est est e	Nikitaan etimekkisensist	X da sasanad mak	, Nastrana	979984 CAS	<b>X</b> Samenne alazot dezigen	X Islah kakazak ropea
Chain Bar Every Link			X	\$ 19 ES 19 7		X	New Xear
Spray Systems* *	Tara da Arris da Arris Delba Status.	with backers	X waxa alka kacasa	) Carallana		X	X
Hydraulic Hose Kits	X		X			X	X
1/4" Steel Conveyor Cover Plate		statet sääre	<b>X</b> Léskokkakan	>489403860-6	<b>(</b> Sist 30 806	X	X Halifoldska skasa
Asphalt Lip	Very Service Services		X			X	<b>X</b>
Rear Spinner (FD Add-on Only) Stainless Steel Construction	X	State State (	X X	) (1)	( <b>(</b> )	X	X

<sup>\*</sup>Standard on front discharge models.

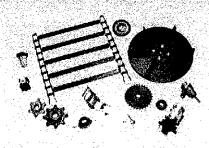
#### SWENSON ENGINEERING

Swenson Spreader's in-house engineering staff is truly world class. Our experienced and talented professionals utilize the most advanced design equipment available to continuously improve our existing product as well as lead in the development of innovative new offerings.

We also draw on over 70 years of experience in the design and manufacturing of products that are synonymous with quality.

If there's work to do . . . Specify Swenson!

#### SWENSON GENUINE PARTS



Genuine Swenson Parts and Accessories are in stock to keep you up and running from one season to the next - all year round. We have a large parts and accessories inventory. It is continuously maintained for fast shipment to you or your authorized Swenson distributor.

An experienced Parts and Accessories Manager is always available to provide you with detailed Information on chains, belts, sprockets, augers, motors, spinner assemblies, valves, and emergency parts kits. Whether you own a small business or manage an entire fleet, our job is keeping you on the job. Remember, only genuine Swenson parts fit your Swenson equipment exactly.

Swenson spreader

SWENSON SPREADER LLC PO BOX 127 - LINDENWOOD, ILLINGIS 61049 888.825.7323 - FAX 866.310.0300 swensonsalee@wensonspreader.com

CUSTOM FABRICATION IS AVAILABLE; CONTACT YOUR LOCAL DISTRIBUTOR FOR MORE INFORMATION.

Swenson Spreader reserves the right under its continuing bloduct improvement program, to change construction
of dealing details and specifications without nation of without incurring any obligation.

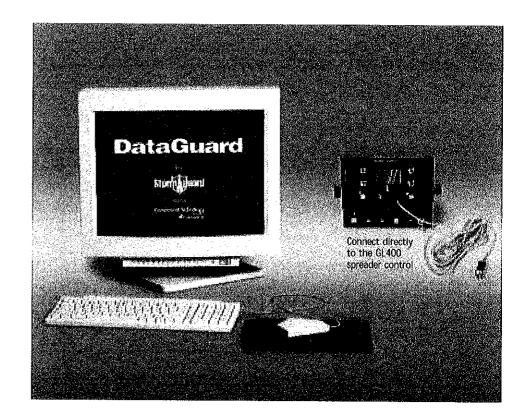
<sup>\*\*</sup>Liquid Spray Systems are available with either electric or hydraulic driven pump system, and in various sizes designed to operate with other Swenson products.



# **DataGuard Spreader Control Software**

DOWNLOAD UP TO 4 MATERIAL TYPES WITH EACH MATERIAL IDENTIFIED BY NAME.

- TOTAL POUNDS SPREAD
- MILES/GALLONS SPREAD WITH PRE-WET
- TOTAL GALLONS
- TOTAL MILES DRIVEN
- PERCENT OF MILES IN AUTO OR MANUAL MODES
- AVERAGE LBS/MILE SPREAD
- AVERAGE/MAXIMUM MPH
- LAST TIME CLEARED SEPARATE STORAGE FOR CURRENT STORM AND ANNUAL ACCUMULATION



Component Technology's NEW "DataGuard" Data Management Software is the latest breakthrough in Liquid/Granular data management for Snow & Ice removal equipment. The "DataGuard" data management software downloads data directly to your laptop and works directly with the communication port on the StormGuard GL400 spreader control. This software allows you to download up to 4 material types with each material identified by name. The downloads are saved to a file of your choice in a format compatible with Microsoft® Excel. Use Excel to create detailed graphs, reports and spreadsheets. The "DataGuard" is easy-to-use, straightforward and can save you time and money. Simply install the "DataGuard" software and you're ready to go. This software can store unlimited truck calibration settings which can be downloaded directly from your laptop to your desktop, also allowing you to re-enter your information back into the spreader control. This and our on-screen displays allow you to quickly take care of the painstaking task of calibration. The "DataGuard" is compatible with Windows® NT or Windows® 95 or Windows® 98 and is presented in an easy-to-store floppy disk.

# Product and System Requirements:

Computer:

80386DX, 20 MHz (or higher) processor

Peripheral:

Mouse or equivalent pointing device

Memory:

4 MB of RAM (minimum);

8 MB (recommended)

Monitor:

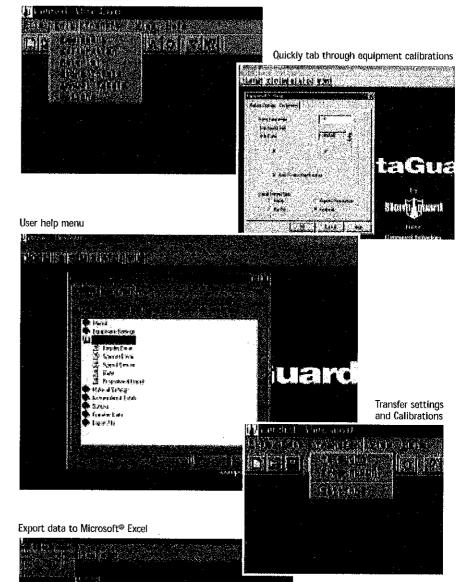
VGA (minimum); Super VGA (recommended)

Disk Space:

20 MB of free hard disk space

Software:

Windows® 95, Windows® 98 or Windows® NT, Microsoft® Excel or Microsoft® Office All GL400 menus available



For more detailed product information, please contact your local dealer.

DataGuard

Starting A Revolution!

Distributed by:

Des Moines, IA (800) 333-7411 Minneapolis, MN (800) 888-7411 Mundelein, IL (888) 905-7411 Perrysburg, OH (800) 374-7411 St. Louis, MO (800) 999-7411

or call our corporate headquarters for a location near you

**Component Technology** 

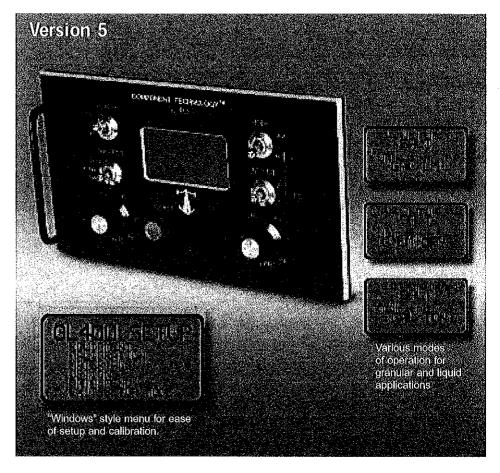
A DIVISION OF Certified Power Inc.

phone: 847-573-3818 fax: 847-573-3836



# Granular/Liquid Automatic Spreader Control (GL400)

- STATE OF THE ART MICRO-PROCESSOR DESIGN
- ADVANCED DATA MANAGEMENT CAPABILITIES
- OPEN-LOOP OR CLOSED-LOOP OPERATION
- EASY TO USE BACK LIT CONTROLS
- LARGE LCD DOT MATRIX DISPLAY
- WINDOWS MENU BASED PROGRAMMING
- YOUR CHOICE OF 4 MATERIALS
- ADVANCED TROUBLE SHOOTING FEATURES
- AUTOMATIC GATE HEIGHT CALIBRATION
- HYDRAULIC AND ELECTRICALLY DRIVEN LIQUID PRE-WET CONTROL
- GPS AND DATA
   MANAGEMENT READY



The StormGuard GL400 is the one control that does it all! Whether it's granular, liquid, or both you can rely on the GL400 to assist in all aspects of your business including management, operators, and maintenance technicians. You get accurate control of granular and liquid materials as well as measurement and reporting capabilities. All of this in a competitively priced package. Your operators will appreciate the ease of control making long hours on the road safer and more productive. The "Windows" style menus for ease of calibration and self diagnostics will keep your technicians smiling. Another innovative solution from StormGuard, the leader in Snow & Ice control equipment.

#### Specifications:

**Battery Voltage:** 

10-32 VDC, with reverse polarity protection

Display:

64 x 128 graphic backlit display

Memory:

Calibration and data storage non-volatile

Communication:

RS-232

Inputs:

7 digital, 1 Multi Purpose

#### **Outputs:**

2 Digital

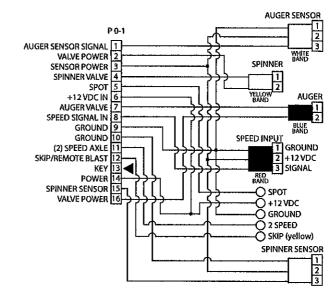
4 high power 3 amp max. per ch. PWM control outputs with short circuit protection

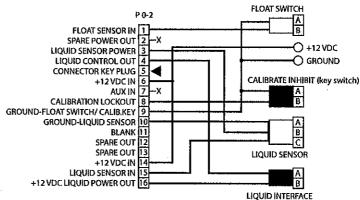
#### Temperature Range (controlled):

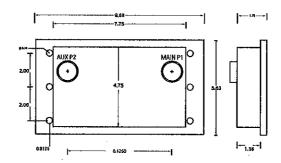
-4°F to 158°F (-20°C to 70°C) storage and operation

#### Additional Features:

- · Closed-loop spinner option
- · Anti-Ice control feature







Complete cable sets are available as per system requirements. For more detailed product information, please contact your local dealer.

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**Component Technology** 

A DIVISION OF Certified Power Inc.

phone: 847-573-3818 fax: 847-573-3836



# PlowGuard - Plow Balance System

PLOWGUARD: DESIGNED FOR MAXIMUM DEPENDABILITY WITH THE FOLLOWING FEATURES:

- LESS PLOW CUTTING EDGE FRICTION ON THE ROAD
- ADDS UP TO 10 TIMES THE CUTTING EDGE LIFE
- DRIVE TRUCK IN A HIGHER GEAR, REDUCE WEAR, SAVE FUEL
- REDUCE DAMAGE TO ROAD LANE MARKERS, PATCHES, AND RAISED SURFACES
- REDUCE THE OPERATOR FATIGUE ASSOCIATED WITH SCRAPING NOISE TRANSMITTED TO THE CAB
- SYSTEM DESIGNS FOR LOAD SENSE AND GEAR PUMP CENTRAL HYDRAULIC SYSTEMS
- FUSED POWER WIRE AND BACK LIGHTING OF MASTER SWITCH, EPOXY-ENCAPSULATED COILS
- AVAILABLE FOR INTEGRATION INTO ANY STORMGUARD CONSOLE OR AS A RETROFIT



PlowGuard plow balance system provides numerous features that benefit snow removal managers, service providers, and equipment operators. The PlowGuard system offers unprecedented control of the hydraulically operated plow and the weight that it's cutting edge bears on the road surface. The PlowGuard system can be operated by means of a simple switch in the truck cab, or integrated into any of our StormGuard control consoles.

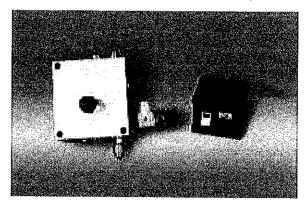
Cutting edge life is extended, truck operating efficiency is improved, truck wear is reduced, and road surfaces encounter less damage as the plow edge rides along the road without its full weight bearing down. Even the driver/operator experiences the benefit of less stress as the scraping noise transmitted to the cab is reduced. Available for integration into any StormGuard Console or as a retrofit.

Component Technology is a pioneer in snow and ice removal. We definitely have the experience to do the job. From the operator to the fleet manager we understand what you need. That's why the entire StormGuard product line, top to bottom, is the best available when you compare safety, reliability, durability, and ease of maintenance. Our engineering staff consistently proves that it is the most innovative in the industry. This makes us the best at bringing your ideas to reality. We can help you design systems and controls that will do your job right and do it well. We are here to serve you and believe that our total commitment to your success is the key to our mutual success.

# Additional Features of PlowGuard:

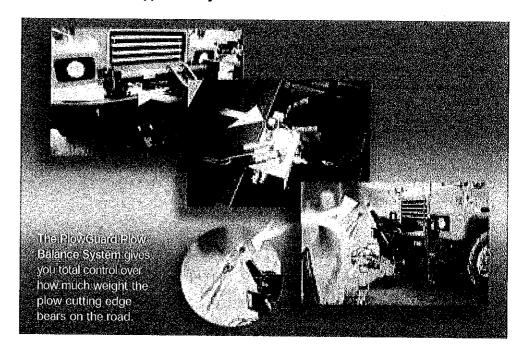
- Reduced damage to asphalt shoulders
- Consumes less than 1/100 HP when in operation

#### PlowGuard Plow Balance Valve System



The PlowGuard Plow Balance System works with gear pump and load sense pump hydraulic systems, to control the amount of weight the plow cutting edge bears on the road surface.

Retrofit installation - approximately 2.5 hrs.



Give us a call and find out where you can get into a demo truck, stop by our booth at one of the many trade shows or contact your local dealer and see first hand the StormGuard advantages of the PlowGuard Plow Balance System.

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NBC 7/03 25K

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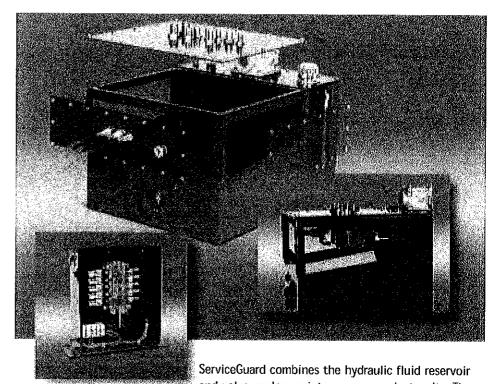
# ServiceGuard/ValveGuard **Reservoirs and Enclosures**

SERVICEGUARD: DESIGNED FOR MAXIMUM DEPENDABILITY WITH THE FOLLOWING FEATURES:

- FORM FITTED GASKETS FOR **ALL PANELS**
- SLOPED BOTTOM WITH LARGE DRAIN GREATLY **REDUCES RUST DAMAGE**
- TOP PLATE MOUNTING ELIMINATES **UNNECESSARY PLUMBING AND** POSSIBLE FAILURE POINTS
- TANK MOUNTED FILTER WITH **CARTRIDGE IS EASIER AND LESS EXPENSIVE TO REPLACE THAN CAN-TYPE FILTER**
- 3" PORT ALLOWS FOR EASY USE OF SUCTION DRAINER
- MAGNETIZED PLUG TO ATTRACT METAL PARTICLES FLOATING IN FLUID

VALVEGUARD GIVE YOU THE **FOLLOWING FEATURES:** 

- FORM FITTED GASKET AND 6 STAINLESS STEEL LATCHES WELDED IN PLACE
- MOUNTS DIRECTLY THROUGH STEEL PLATE PANEL TO **ELIMINATE INTERNAL PLUMBING**



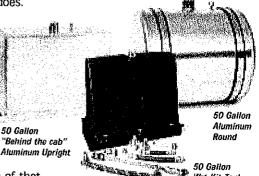
and valve enclosure into one convenient unit. The new bulkhead design does not require internal tubing and hoses, thereby eliminating several potential leak and service points.

It can be used with practically any valve: manual, electric, hydraulic, or air-controlled. Frame mounted units are subjected to incredible abuse from the truck's rear wheels constantly throwing off corrosive materials: ice, snow, dirt, and road salt. It is essential that the hydraulic fluid and valve assembly be protected from these hazards and that is precisely what ServiceGuard does.

50 Gallon

The ServiceGuard unit is constructed of heavy seven gauge steel plating. In addition, ValveGuard and ServiceGuard are also available in stainless steel construction. The valve enclosure is kept weather tight by steel plates bolted over form fitted gaskets. Its design greatly reduces downtime and labor costs during service -- once a

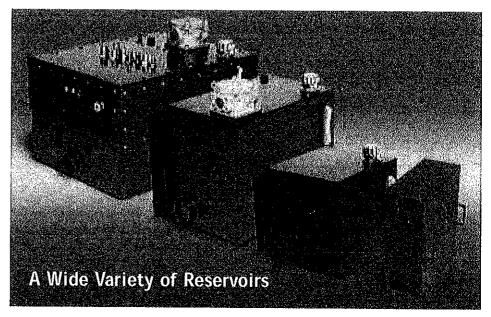
four-hour job is now reduced to a fraction of that.



Component Technology is a pioneer in snow and ice removal. We definitely have the experience to do the job. From the operator to the fleet manager we understand what you need. That's why the entire StormGuard product line, top to bottom, is the best available when you compare safety, reliability, durability, and ease of maintenance. Our engineering staff consistently proves that it is the most innovative in the industry. This makes us the best at bringing your ideas to reality. We can help you design systems and controls that will do your job right and do it well. We are here to serve you and believe that our total commitment to your success is the key to our mutual success.

#### Additional Features of ServiceGuard and ValveGuard:

- · Works with any type of valve
- Fewer potential failure points for less down time
- Easier accessibility and servicing for lower labor costs
- Designed for a longer trouble-free life
- A superior weather tight seal
- ServiceGuard comes ported to save time, money, and problems



We have designed and built a wide variety of shapes and sizes of reservoirs to fit all the standard applications. However, if you have a unique need, custom reservoirs are not a problem. Steel, stainless, and poly reservoirs are available, all designed for easy mounting and built for a long life. All are pressure tested and delivered in primer allowing the Installer to paint with the color of his choice. In addition our reservoirs are available with a powder coated finish, eliminating the need for finish coat painting if desired. We offer a large selection of accessories, which are available individually or as part of a complete system package.

PART NUMBER	DESCRIPTION	L	W H
CP-RES7S	7 Gal. Side Frame Steel	12"	12"   12"
CP-RES10S	10 Gal. Side Frame Steel	12"	15" 15"
CP-RES15S	15 Gal. Side Frame Steel	16"	15" 16"
CP-RES20S	20 Gal. Side Frame Steel	18"	15"   18"
CP-RES20S-LS	20 Gal. Side Frame Load Sense Steel	18"	15" 18"
CP-RES25S	25 Gal. Side Frame Steel	20"	15" 20"
CP-RES30S	30 Gal, Side Frame Steel	24"	15"   20"
CP-RES30S-LS	30 Gal. Side Frame Load Sense Steel	24"	15" 20"
CP-RES40S	40 Gal. Side Frame Steel	24"	20"   20"
CP-RES40S-LS	40 Gal. Side Frame Load Sense Steel	24"	20"   20"
CP-RES5OS	50 Gal, Side Frame	24"	20"   24"
CP-RES50S-FS-LS	50 Gal. Side Frame Load Sense Steel	24"	20"   24"
CP-RES50P-U CP-RES50S-U	50 Gal, Upright Poly	Call for print	en en en en en en la frant en page neget part en en en en en en beginne en en e
CP-RESSOS-VMSG	50 Gal. Upright Steel	36" 528	14" 34"
CP-RES50S-VMSG	30 Gal. ServiceGuard Steel 50 Gal. ServiceGuard Steel	24" 24"	30" 18" 30" 23"

Give us a call and find out where you can get into a demo truck, stop by our booth at one of the many trade shows or contact your local dealer and see first hand the StormGuard advantages of ServiceGuard and ValveGuard.

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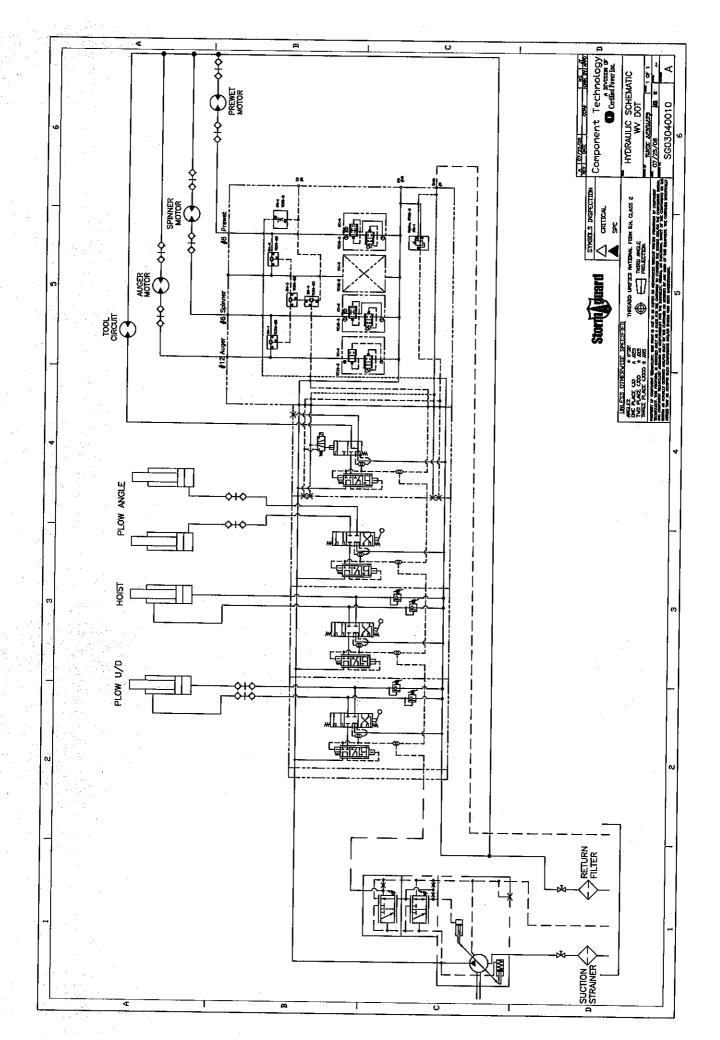
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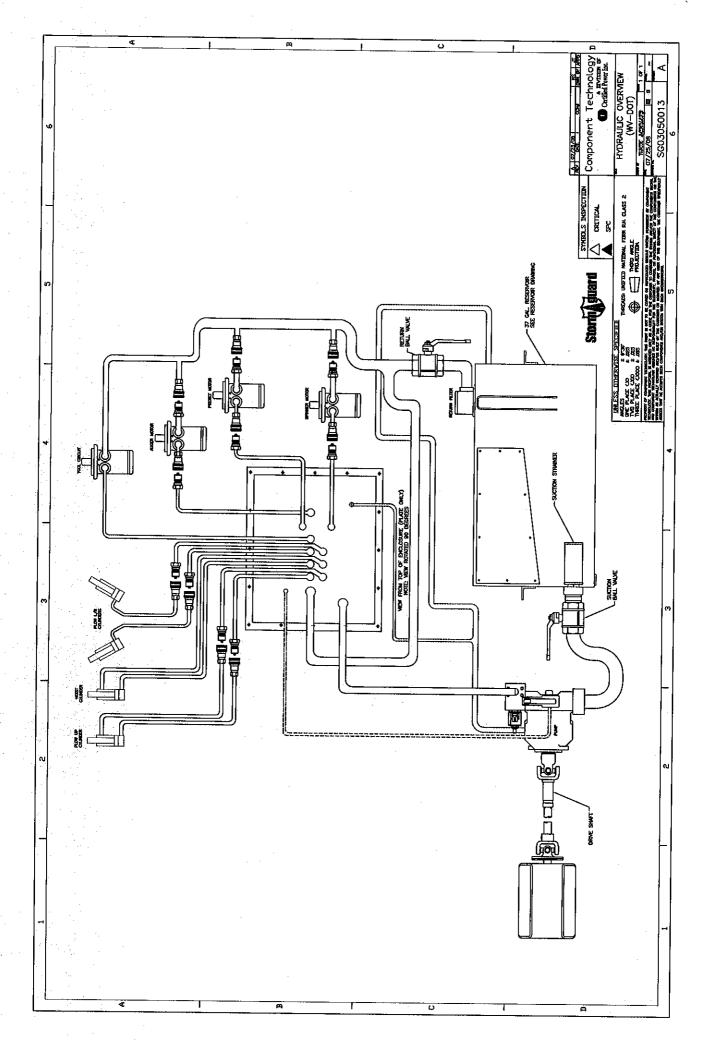
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#### ALL NEW TPE HARNESS SYSTEM

# You Know the Problem... Meet the Solution

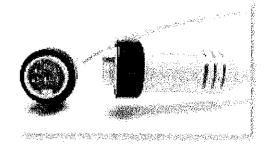
**DURABILITY:** Tested to withstand 250 connection/disconnection cycles.

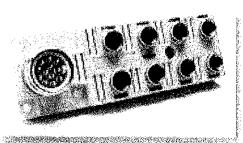
MECHANICAL SHOCK: Resistance tested after simulated service in a stamping press application.

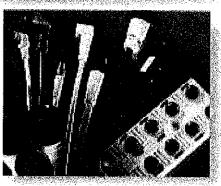
Power & Temperature Cycling: Connectors and harness are tested from -25°C to +70°C as a temperature cycle.

SUBMERSION/WASHDOWN: Water tight submerged in 6' of water for 24 hours, in 265' of water for 1 hour and when subjected to a 1000 psi pressure wash.

SALT SPRAY: Designed to resist corrosion even after 500 hours in a 35C salt spray.







- \* This new harness system simplifies installation and service of electrical systems. LED's for each electric valve indicate power to that valve. All cable ends are molded to the cable to seal out moisture. Connectors are a locking style, similar to an MIL spec connector, each with three separate sealing points; the lock-ring itself, a raised portion of molded plastic around each pin and a viton o-ring that seals the entire connector. A detented lock-ring is also used to insure that a locked position is maintained under tension.
- Separate cables for the valve, sensors and accessories reduce up front costs. This also allows for individual replacement, thereby reducing maintenance and service expenses. All connectors are zinc die cast E-coated.
- The cable jacket consists of a Thermoplastic Elastomer (TPE), molded to the connectors which provides exceptional cold weather flexibility. This cabling is rated excellent to outstanding in resisting oxidation, heat, oil, sun exposure, ozone, abrasion, electrical properties, flame, water, acid, alkali, gasoline, benzol, toluol, degreaser solvents, alcohol and weld slag.

SWENSON SPREADER LLC P.O. BOX 127 - LINDENWOOD, ILLINOIS 61049

# Swenson - spreade

Effective 5/1/99

Dealers have the responsibility of calling to the attention of their customers the following warranty prior to acceptance of an order from that customer for any SWENSON® product.

# WARRANTY

SWENSON warrants to the original purchaser for use that, if any part of the product original installation, and is returned to SWENSON within 30 days after such defect is or maintenance. Said part will not be considered defective if it substantially fulfills the proves to be defective in material or workmanship within one year from the date of discovered, SWENSON will (at our option) either replace or repair said part. This warranty does not apply to damage resulting from misuse, neglect, accident or improper installation OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PURPOSE AND OF ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED. SWENSON® neither assumes nor authorizes anyone to assume for it any other obligation or liability in connection with said part and will not be performance specifications. THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU iable for consequential damages. All gasoline engines and hydraulic pumps are warranted by their manufacturer and not by Swenson Spreader LLC. Electrical or hydraulic components are not to be disassembled without the express written permission of Swenson Spreader LLC. Defective parts returned to Swenson Spreader LLCmust be accompanied by the following information: spreader model, serial number, date installed and dealer from whom purchased.

Purchaser accepts these terms and warranty limitations unless the product is returned within fifteen days for full refund of purchase price.



#### WARRANTY POLICY

VIKING - CIVES LTD warrants products of its manufacture against defects in workmanship and material for a period of one year, from the date of shipment to the customer. In consequence of this warranty, any component part or parts of such products proving defective within the above specified time will be repaired or replaced F.O.B. factory. Providing such parts are returned, transportation prepaid, to the factory and found defective by VIKING - CIVES LTD.

This warranty will not apply to any product which has been repaired or altered outside of VIKING - CIVES LTD factory in any way, so as in VIKING - CIVES LTD's judgement, to affect its stability or reliability, nor which has been subject to misuse or accident.

The obligations of VIKING - CIVES LTD under this warranty are limited to the replacement of defective parts. Such obligations are exclusive and in lieu of all other remedies, warranties, guarantees of liabilities, expressed or implied, with respect to each product delivered, hereunder, arising by law or otherwise (including without limitation any obligation or liability by VIKING - CIVES LTD arising from negligence or with respect to fitness, merchantability, loss of use, revenue, or profit, or consequential damages or injuries).

This limited warranty shall not be extended, altered, or varied except by a written instrument signed by VIKING - CIVES LTD.

VIKING - CIVES LTD assumes no responsibility for engines, electrical equipment or any other equipment and accessories not manufactured by VIKING - CIVES LTD beyond the warranty of the manufacturer of such equipment of accessories.

All warranty work done on VIKING-CIVES LTD equipment must have prior authorization from VIKING-CIVES LTD along with a "Return Goods Authorization" number. All labor and parts issued by user for VIKING-CIVES LTD warranty without an authorization number and a signed authorization warranty form will be at the users own cost.



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