



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

State of West Virginia
Centralized Request for Quote
Miscellaneous

Proc Folder: 2019529

Doc Description: Under-bridge Inspection Unit

Reason for Modification:

ADDENDUM NO_4
Vendor Questions and Responses

Proc Type: Central Purchase Order

Date Issued

Solicitation Closes

Solicitation No

Version

2026-08-28

2026-09-08 13:30

CRFQ 0803 DOT2700000007

5

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON WV 25305

US

VENDOR

Vendor Customer Code: 000000200051

Vendor Name : Matheny Motor Truck Company

Address : Matheny Motor Truck Company

Street : 4125 1st Ave

City : Nitro

State : WV

Country : United States

Zip : 25143

Principal Contact : Jack Cummings

Vendor Contact Phone: 304-769-5860

Extension: X 3601

FOR INFORMATION CONTACT THE BUYER

John W Estep

304-558-2566

john.w.estep@wv.gov

Vendor
Signature X

FEIN#

55-032-0770

DATE 09/08/2026

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION**ADDENDUM NO_4**

Addendum No_4 issued to publish and distribute the attached information to the Vendor Community

The West Virginia Purchasing Division is soliciting bids On behalf of the West Virginia Division of Highways (WVDOH), Department of Transportation (DOT), to establish a contract for the one-time purchase of a Class 933 Under-bridge Inspection Vehicle Aspen Aerial B32 or equal. Per the Bid Requirements, Specifications, terms and conditions attached to this solicitation.

INVOICE TO

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION RT 33
83 BRUSHY ROAD
CROSSING, PO BOX 610
BUCKHANNON WV
US

SHIP TO

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
83 BRUSHY FORK RD
CROSSING
BUCKHANNON WV
US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Aerial working platform truck	1.00000	EA	\$707,238.00	\$707,238.00

Comm Code	Manufacturer	Specification	Model #
25101911	FREIGHTLINER	UNDERBRIDGE INSPECTION UNIT	2027 114 SD & ASPEN B-32

Extended Description:

Under-bridge Inspection Unit

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Mandatory Pre-Bid at 10:00am EST	2026-08-12
2	Questions Due by 10:00am EST	2026-08-20

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFO DOT2700000007

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge the addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

☒ Addendum No. 1	☐ Addendum No. 6
☒ Addendum No. 2	☐ Addendum No. 7
☒ Addendum No. 3	☐ Addendum No. 8
☒ Addendum No. 4	☐ Addendum No. 9
☐ Addendum No. 5	☐ Addendum No. 10

I understand that failure to confirm the receipt of the addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Matheny Motor Truck Company

Company



Authorized Signature

09/08/2026

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

VENDOR: MATHENY MOTOR TRUCK COMPANY**Class 933**

Item No.	Description:	Model & Part Number Being Bid	Estimated Unit Quantity	Unit Price	Item Total Cost
1	Under-Bridge Inspection Unit	2027 Freightliner 114 SD Equipped with an Aspen Aerial B-32 with platform	1	\$707,238.00	\$707,238.00
Total Bid Cost					\$707,238.00
Bid Will Be Awarded To The Lowest Overall Bid Total For All Items					
Vendor Information					
Company Name: Matheny Motor Truck Company					
Contact Manager: Jackie S Cummings					
Address: Matheny Motor Truck Company, 4125 1st Ave, Nitro, WV 25143					
Phone: 304-769-5860 x 3601					
Fax: 304-769-5866					
E-mail: jcummings@mathenymotors.com					
Signature: 					

**REQUEST FOR QUOTATION
UNDERBRIDGE INSPECTION VEHICLE ASPEN AERIAL B32 OR EQUAL**

- 8.3 Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Jack Cummings
Telephone Number: 304 769-5860 x 3601
Fax Number: 304 769-5866
Email Address: jcummings@mathenymotors.com

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Jack Cummings - sales consultant

(Address) Matheny Motor Truck Company, 4125 1st Ave, Nitro WV 25143

(Phone Number) / (Fax Number) 304 769-5860 x 3601 fax 304 769-5866

(email address) jcummings@mathenymotors.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Matheny Motor Truck Company

(Company)


(Signature of Authorized Representative)

Jack Cummings - Sales Consultant

(Printed Name and Title of Authorized Representative) (Date)

304 769-5860 x 3601 fax 304 769-5866

(Phone Number) (Fax Number)

jcummings@mathenymotors.com

(Email Address)

ASPEN B-32

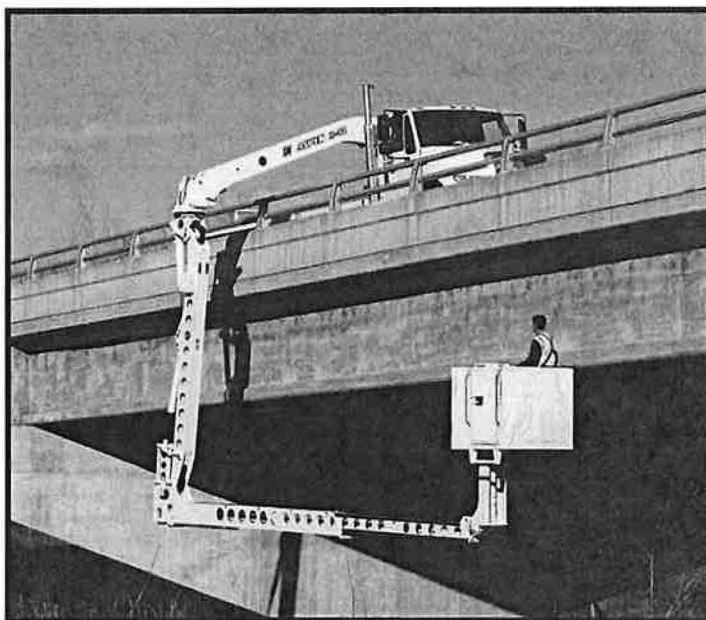
Bridge Inspection Unit

Lightweight and Multipurpose

Design.....The innovative Aspen B-32 is designed like no other unit on the market. It's lightweight and extremely maneuverable, making it ideal for accessing weight restricted bridges. Attention to detail is evident throughout, from the fully shielded turntable cylinder design to the incorporated vertical extension at the platform. Maximum reach is obtained with components protected and away from bridge obstructions. Overhead work can also be accomplished, even when not working on a bridge.

Lightweight.....The Aspen B-32 weighs less than 26,000 GVW (a CDL is not required) in one configuration or it can be equipped with additional unit accessories and chassis options, in a heavier version.

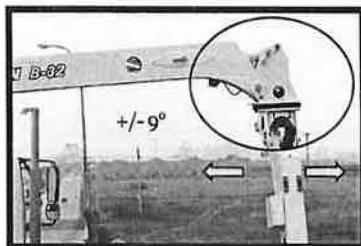
Stabilization.....Bridge slopes and grades, exceeding ANSI A92.8 testing standards, are not an issue with the Aspen B-32. Aspen's innovative sliding counterweight system is available. As with all Aspen units, outriggers are not used and counterweights stay within the width of the truck during operation.



Sidewalk Clearance



Clear over 7'-6" wide sidewalks easily with the aid of a hydraulically activated turntable, installed the end of boom #1. It also has can level the platform when working on bridges with slopes.

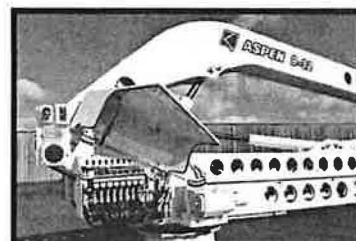


Overhead Aerial Capability



With the versatility of the Aspen B-32, overhead access is achievable whether you're operating on a bridge or not. The platform can be raised 33' above ground level. A single unit capable of being used for a variety of tasks.

Convenient Control Access



The hydraulic controls are easily assessed at the turret. The cab station includes a "Plus 1" unit interface with color monitor. Intercom stations are provided at both locations and platform.





Standard Equipment

- Plus 1 Graphic Terminal Interface in cab
- Hydraulically adjustable turntable
- Automatic leveling platform: 38" x 54" (965mm x 1371mm), with access gate
- 2 sets of wireless controls: one set in the platform and one set at the truck
- 3 articulating booms (3rd boom telescopes)
2 rotating turrets, platform extension
- Stability interlocks with monitoring system
- Two power systems: power take-off from the truck's transmission and a back-up 12volt emergency power system
- 12volt intercom system between platform and driver's compartment

Horizontal Underbridge Reach	31'-6" / 9.6m
Vertical Reach Down	33' / 10m
Vertical Reach Up	33'-10" / 10.3m
Boom no. 1 movement	+40 to - 24
Boom no. 2 movement	+ 0 to -105
Boom no. 3 movement	+90 to - 60
Platform Extension Reach	7' / 2.1m
Space Required on Bridge	102" / 2.5m
Basket Capacity	450 lbs. / 204 kg
Basket Size	38" x 54" x 42" 965mm x1371mm
Overall Length *	32' / 9.8m
Overall Height *	10'-6" / 3.2m
Overall Weight *	25,000 - 30,000 lb 11,300 - 13,600 kg

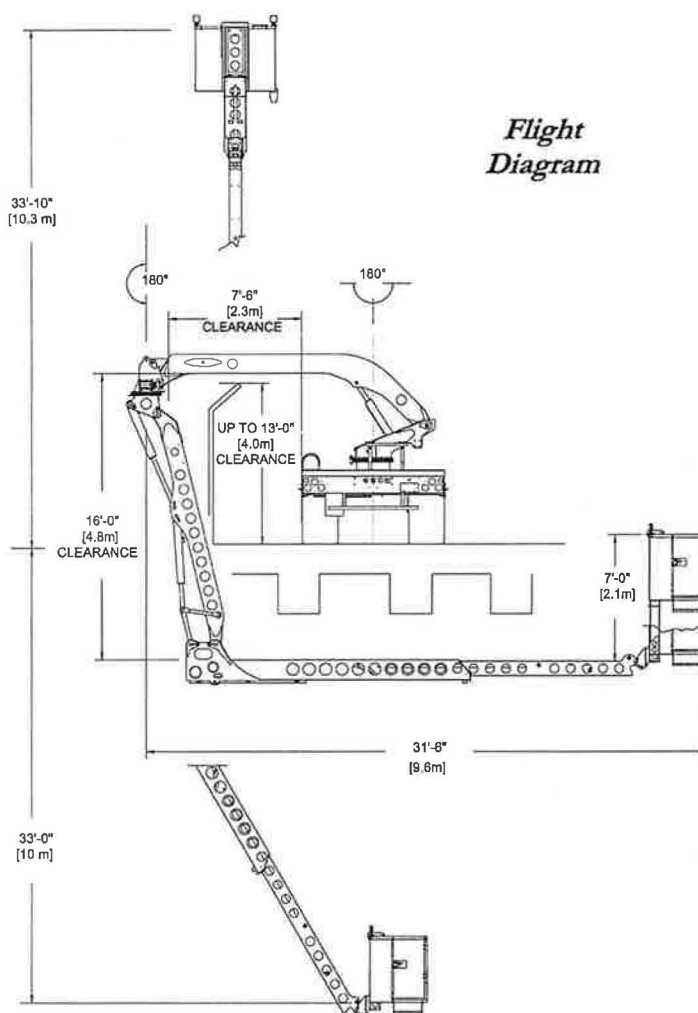
* varies depending on chassis and options.

Aspen Aerials, Inc.
4303 West 1st Street
Duluth, MN 55807

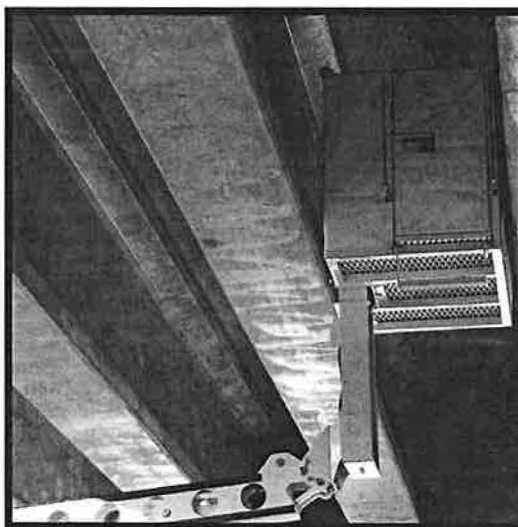
Phone: 218-624-1111
Toll Free: 800-888-2773
Fax: 218-624-1714
Web site: www.aspenaerials.com



Specifications



Vertical Platform Extension



The Aspen B-32 is equipped with a hydraulic extension on the platform. This feature provides 7' of vertical reach, enabling the inspectors to get up into tight areas and close behind beams.

Prepared for:
WEST VIRGINIA DEPT OF HIGHWAYS
83 BRUSHY FORK XING

BUCKHANNON, WV 26201
Phone: 304-473-5354

Prepared by:
Jackie Cummings
MATHENY MOTOR TRUCK
COMPANY
50 Matheny Lane
Mineral Wells, WV 26150
Phone: 3044854418

SPECIFICATION PROPOSAL

Description	Weight Front	Weight Rear
Price Level		
SD PRL-30D (EFF:MY27 ORDERS)		
Data Version		
SPECPRO21 DATA RELEASE VER 004		
Vehicle Configuration		
114SD PLUS CONVENTIONAL CHASSIS	7,934	6,476
2027 MODEL YEAR SPECIFIED		
SET BACK AXLE - TRUCK	480	-480
STRAIGHT TRUCK PROVISION, NON-TOWING		
LH PRIMARY STEERING LOCATION		
General Service		
TRUCK CONFIGURATION		
DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
EPA CLEAN IDLE LABEL - (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD OF DRIVER DOOR)		
PICKUP AND DELIVERY/SHORT HAUL SERVICE		
GENERAL FREIGHT BUSINESS SEGMENT		
GENERAL FREIGHT COMMODITY		
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
MAXIMUM 8% EXPECTED GRADE		
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
FREIGHTLINER SD VOCATIONAL WARRANTY		
EXPECTED FRONT AXLE(S) LOAD : 13220.0 lbs		



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Description	Weight Front	Weight Rear
EXPECTED REAR DRIVE AXLE(S) LOAD : 21000.0 lbs		
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 34220.0 lbs		
Truck Service		
DRY VAN BODY		
ASPEN EQUIPMENT		
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		
Engine		
CUM L9 330 HP @ 2200 RPM; 2200 GOV RPM, 1000 LB-FT @ 1200 RPM	-850	-70
Electronic Parameters		
70 MPH ROAD SPEED LIMIT		
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
ENGINE FAN ENABLED WITH RETARDER		
REGEN INHIBIT SPEED THRESHOLD - 0 MPH		
NO AUTOMATIC ENGINE SHUTDOWN - GHG		
Engine Equipment		
EPA 2010/GHG 2024 CONFIGURATION		
STANDARD OIL PAN		
ENGINE MOUNTED OIL CHECK AND FILL		
SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED		
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
(3) DTNA GENUINE, FLOODED STARTING, MIN 2850CCA, 525RC, THREADED STUD BATTERIES		
BATTERY BOX FRAME MOUNTED		
STANDARD BATTERY JUMPERS		
SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
NON-POLISHED BATTERY BOX COVER		
NON-ESSENTIAL POSITIVE LOAD DISCONNECT, LOCKING IN CAB CONTROL SWITCH MOUNTED OUTBOARD OF DRIVER SEAT	2	

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Description	Weight Front	Weight Rear
PROGRESSIVE LOW VOLTAGE DISCONNECT AT 12.3 VOLTS FOR DESIGNATED CIRCUITS	2	
CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
C-BRAKE BY JACOBS WITH HIGH MED LOW BRAKE WITH BRAKE LAMPS	80	
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER		
11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
STANDARD CURVE BRIGHT UPPER STACK(S)		
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
13 GALLON DIESEL EXHAUST FLUID TANK		
100 PERCENT DIESEL EXHAUST FLUID FILL		
STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
NON-POLISHED ALUMINUM DIAMOND PLATE DIESEL EXHAUST FLUID TANK COVER	15	5
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
STANDARD DIESEL EXHAUST FLUID TANK CAP		
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD		
AIR POWERED ON/OFF ENGINE FAN CLUTCH		
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
CUMMINS SPIN ON FUEL FILTER		
COMBINATION FULL FLOW/BYPASS OIL FILTER		
NO COOLANT FILTER	-10	
1300 SQUARE INCH ALUMINUM RADIATOR	-50	
ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		

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Description	Weight Front	Weight Rear
STANDARD CHARGE AIR COOLER PLUMBING		
RADIATOR DRAIN VALVE		
LOWER RADIATOR GUARD	6	
PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
ELECTRIC GRID AIR INTAKE WARMER		
DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-35	

Transmission

ALLISON 3500 RDS AUTOMATIC TRANSMISSION
 WITH PTO PROVISION

Transmission Equipment

ALLISON VOCATIONAL PACKAGE 223 -
 AVAILABLE ON 3000/4000 PRODUCT FAMILIES
 WITH VOCATIONAL MODELS RDS, HS, MH AND
 TRV

ALLISON VOCATIONAL RATING FOR ON/OFF
 HIGHWAY APPLICATIONS AVAILABLE WITH ALL
 PRODUCT FAMILIES

PRIMARY MODE GEARS, LOWEST GEAR 1,
 START GEAR 1, HIGHEST GEAR 6, AVAILABLE
 FOR 3000/4000 PRODUCT FAMILIES ONLY

SECONDARY MODE GEARS, LOWEST GEAR 1,
 START GEAR 1, HIGHEST GEAR 6, AVAILABLE
 FOR 3000/4000 PRODUCT FAMILIES ONLY

PRIMARY SHIFT SCHEDULE RECOMMENDED BY
 DTNA AND ALLISON, THIS DEFINED BY ENGINE
 AND VOCATIONAL USAGE

SECONDARY SHIFT SCHEDULE
 RECOMMENDED BY DTNA AND ALLISON, THIS
 DEFINED BY ENGINE AND VOCATIONAL USAGE

PRIMARY SHIFT SPEED RECOMMENDED BY
 DTNA AND ALLISON, THIS DEFINED BY ENGINE
 AND VOCATIONAL USAGE

SECONDARY SHIFT SPEED RECOMMENDED BY
 DTNA AND ALLISON, THIS DEFINED BY ENGINE
 AND VOCATIONAL USAGE

ENGINE BRAKE RANGE PRESELECT
 RECOMMENDED BY DTNA AND ALLISON, THIS
 DEFINED BY ENGINE AND VOCATIONAL USAGE

2ND GEAR ENGINE BRAKE ALTERNATE
 PRESELECT WITH MODERATE DOWNSHIFT
 STRATEGY

Prepared for:
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Description	Weight Front	Weight Rear
FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED		
DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
QUICKFIT BODY LIGHTING CONNECTOR UNDER CAB, WITH BLUNTCUTS		
ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR		
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
HEAVY DUTY ELECTRONIC TRANSMISSION SHIFT CONTROL, COLUMN MOUNTED		
TRANSMISSION PROGNOSTICS - ENABLED 2013		
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-15	
TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
ATF-SYNTHETIC AUTOMATIC TRANSMISSION FLUID		

PTO Equipment and Parameters

PTO CONTROLS FOR ENHANCED VEHICLE
 ELECTRIC/ELECTRONIC ARCHITECTURE
 CUSTOMER INSTALLED CHELSEA 871 SERIES
 PTO
 PTO MOUNTING, LH SIDE OF MAIN
 TRANSMISSION ALLISON & ZF
 PTO 1, WITH SWITCH, TEM SUPPLIED REQUEST
 AND INTERLOCKS, WITH PTO CONNECTIONS,
 NO FACTORY INTERLOCKS
 PTO MINIMUM RPM - 775
 PTO RPM WITH CRUISE SET SWITCH - 800 RPM
 CRUISE CONTROL BUTTON PTO CONTROL AND
 TWO REMOTE PTO SPEEDS
 PTO SPEED 1 SETTING - 1000 RPM
 PTO SPEED 2 SETTING - 1050 RPM
 PTO MODE ENGINE RPM LIMIT - 1100 RPM
 FUEL DOSING OF AFTERTREATMENT ENABLED
 IN PTO MODE-CLEANS HYDROCARBONS AT
 HIGH TEMPERATURES ONLY
 PTO GOVERNOR RAMP RATE - 250 RPM PER
 SECOND

Front Axle and Equipment

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Description	Weight Front	Weight Rear
DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE	10	
MERITOR EX+LS AXIAL AIR DISC FRONT BRAKES	10	
NON-ASBESTOS FRONT BRAKE LINING		
FRONT DISC BRAKE ROTORS		
FRONT OIL SEALS		
VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
STANDARD SPINDLE NUTS FOR ALL AXLES		
FRONT AIR DISC BRAKE INTERNAL ADJUSTERS		
STANDARD KING PIN BUSHINGS		
TRW TAS-85 POWER STEERING	40	
POWER STEERING PUMP		
2 QUART SEE THROUGH POWER STEERING RESERVOIR		
MINERAL SAE 80/90 FRONT AXLE LUBE		
Front Suspension		
14,600# FLAT LEAF FRONT SUSPENSION	250	
GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
FRONT SHOCK ABSORBERS		
Rear Axle and Equipment		
MERITOR RS-23-160 23,000# R-SERIES SINGLE REAR AXLE		-2,270
5.63 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
SPL170 XL DANA SPICER MAIN DRIVELINE WITH HALF ROUND YOKES		
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE		
INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH, ENGAGE <5 MPH, DISENGAGE >25 MPH		
MERITOR EX+LS AXIAL AIR DISC REAR BRAKES		-40
NON-ASBESTOS REAR BRAKE LINING		
BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)		
REAR DISC BRAKE ROTORS		

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Description	Weight Front	Weight Rear
REAR OIL SEALS		
AIR DISC LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		-20
REAR AIR DISC BRAKE INTERNAL ADJUSTERS		
CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE		
STANDARD REAR AXLE BREATHER(S)		
Rear Suspension		
23,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING HELPER		50
SPRING SUSPENSION - 1.50" AXLE SPACER		10
STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
Pusher / Tag Equipment		
NO PUSHER/TAG BRAKE DUST SHIELDS		
Brake System		
WABCO 4S/4M ABS WITH TRACTION CONTROL		
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
STANDARD AIR MANAGEMENT UNIT		
FIBER BRAID PARKING BRAKE HOSE		
STANDARD BRAKE SYSTEM VALVES		
STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
STD U.S. FRONT BRAKE VALVE		
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
AIR DRYER MOUNTED INBOARD ON LH RAIL		
STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL		
BW DV-2 AUTO DRAIN VALVE WITH HEATER - WET TANK, PETCOCKS ALL OTHERS		
Trailer Connections		
NO AIR HOSE HANGER		
NO TRAILER RECEPTACLE BRACKET		
Wheelbase & Frame		
5675MM (223 INCH) WHEELBASE		

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Description	Weight Front	Weight Rear
7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	530	110
1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	230	410
1000MM (39 INCH) REAR FRAME OVERHANG		
FRAME OVERHANG RANGE: 31 INCH TO 40 INCH	50	-240
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 157.87 in		
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 154.87 in		
CALC'D FRAME LENGTH - OVERALL : 292.94 in		
CALCULATED FRAME SPACE LH SIDE : 97.43 in		
CALCULATED FRAME SPACE RH SIDE : 124.41 in		
CALC'D SPACE AVAILABLE FOR DECKPLATE : 0.0 in		
SQUARE END OF FRAME		
FRONT CLOSING CROSSMEMBER		
STANDARD WEIGHT ENGINE CROSSMEMBER		
STANDARD MIDSHIP #1 CROSSMEMBER(S)		
STANDARD REARMOST CROSSMEMBER		
STANDARD SUSPENSION CROSSMEMBER		

Chassis Equipment

14 INCH PAINTED STEEL BUMPER	20
BUMPER MOUNTING FOR SINGLE LICENSE PLATE	
NO MUDFLAP BRACKETS	
NO REAR MUDFLAPS	
GRADE 8 THREADED HEX HEADED FRAME FASTENERS	
EXTERIOR HARNESSSES WRAPPED IN ABRASION TAPE	
LEVEL FRAME RAILS (+1%, -0%) WHEN CHASSIS IS LOADED TO FRONT AND REAR SUSPENSION RATINGS	
2D DXF/PDF VEHICLE DRAWING	
DRAWING WILL BE GOING TO ASPEN AERIALS	

Fifth Wheel

NO FIFTH WHEEL

Fuel Tanks

Prepared for:
 WEST VIRGINIA DEPT OF HIGHWAYS
 83 BRUSHY FORK XING

 BUCKHANNON, WV 26201
 Phone: 304-473-5354

Prepared by:
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 COMPANY
 50 Matheny Lane
 Mineral Wells, WV 26150
 Phone: 3044854418

Description	Weight Front	Weight Rear
70 GALLON/264 LITER ALUMINUM FUEL TANK - LH	5	
25 INCH DIAMETER FUEL TANK(S)		
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
FUEL TANK(S) FORWARD		
PLAIN STEP FINISH		
FUEL TANK CAP(S)		
DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR AND 12 VOLT PREHEATER	10	
EQUIFLO INBOARD FUEL SYSTEM		
AUXILIARY FUEL SUPPLY AND RETURN PORTS LOCATED ON LH FUEL TANK		
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires		
GOODYEAR G751 MSA 12R22.5 16 PLY RADIAL FRONT TIRES	74	
CONTINENTAL HDC1HT 11R22.5 16 PLY RADIAL REAR TIRES		100
Hubs		
CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
Wheels		
ALCOA 88167X 22.5X8.25 10-HUB 5.81 INSET ALUMINUM DISC FRONT WHEELS	-62	
ALCOA 88167X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-124
POLISHED BOTH SIDES FRONT WHEELS WITH DURA-BRIGHT FINISH		
POLISHED OUTER (DISHED SIDE) REAR WHEELS WITH OUTER ONLY DURA-BRIGHT FINISH		
FRONT WHEEL MOUNTING NUTS		
REAR WHEEL MOUNTING NUTS		
NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES		
Cab Exterior		

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Description	Weight Front	Weight Rear
114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
AIR CAB MOUNTING		
CAB ROOF REINFORCEMENTS FOR ROOF MOUNTED COMPONENTS	2	
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
FRONT FENDERS SET-BACK AXLE		
SAFETY YELLOW LH AND RH INTERIOR GRAB HANDLES AND LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT		
STATIONARY BLACK GRILLE		
BLACK HOOD MOUNTED AIR INTAKE GRILLE		
FIBERGLASS HOOD		
FREIGHTLINER NAME PLATES		
TUNNEL/FIREWALL LINER		
DUAL 14 INCH ROUND POLISHED AIR HORNS	4	
SINGLE ELECTRIC HORN		
DUAL HORN SHIELDS		
SWITCH AND WIRING WITH STAINLESS STEEL BRACKETS MOUNTED OUTBOARD ROOF FOR (2) CUSTOMER FURNISHED BEACONS	2	
HALOGEN COMPOSITE HEADLAMPS WITH BLACK BEZELS		
LED AERODYNAMIC MARKER LIGHTS		
DAYTIME RUNNING LIGHTS		
* OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING FOR COMBINED STOP/TURN LIGHTS TO 7 FEET BEYOND END OF FRAME		
STANDARD FRONT TURN SIGNAL LAMPS		
* (2) SWIVEL UTILITY LIGHTS ROOF MOUNTED		
DUAL WEST COAST MOLDED-IN COLOR HEATED MIRRORS WITH LH AND RH REMOTE		
DOOR MOUNTED MIRRORS		
102 INCH EQUIPMENT WIDTH		
LH AND RH 8 INCH MOLDED-IN COLOR CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
RH 8 INCH STAINLESS STEEL FENDER MOUNTED CONVEX MIRROR WITH TRIPOD BRACKETS	4	
STANDARD SIDE/REAR REFLECTORS		
63X14 INCH TINTED REAR WINDOW		

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Description	Weight Front	Weight Rear
TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
RH AND LH ELECTRIC POWERED WINDOWS		
1-PIECE SOLAR GREEN GLASS WINDSHIELD		
8 LITER (2 GAL) WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR		
Cab Interior		
PROFESSIONAL TRIM PACKAGE		
MIST AND CARBON CLOTH INTERIOR "PROFESSIONAL"		
CARBON WITH BASE BLACK ACCENT		
MOLDED DOOR PANEL		
MOLDED PLASTIC DOOR PANEL		
BLACK MATS WITH SINGLE INSULATION		
ASH CUP AND (1)LIGHTER,(1)DASH MOUNTED DUAL USB-C OUTLET		
FORWARD ROOF MOUNTED CONSOLE		
LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS		
DIGITAL ALARM CLOCK IN DRIVER DISPLAY		
(2) CUP HOLDERS LH AND RH DASH		
M2/SD DASH		
5 LB. FIRE EXTINGUISHER	10	
FIRST AID KIT	2	
HEATER, DEFROSTER AND AIR CONDITIONER		
STANDARD HVAC DUCTING		
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
STANDARD HEATER PLUMBING		
VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR		
BINARY CONTROL, R-134A		
STANDARD INSULATION		
SOLID-STATE CIRCUIT PROTECTION AND FUSES		
12V NEGATIVE GROUND ELECTRICAL SYSTEM		
STANDARD LED CAB LIGHTING		
REMOTE KEYLESS ENTRY AND 2 TRANSMITTERS	2	
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		

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Description	Weight Front	Weight Rear
KEY QUANTITY OF 2		
LH AND RH ELECTRIC DOOR LOCKS		
NO MATTRESS	-20	-15
TRIANGULAR REFLECTORS WITHOUT FLARES	10	
BASIC ISRINGHAUSEN HIGH BACK AIR SUSPENSION DRIVERS SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
BASIC ISRINGHAUSEN HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	35	
DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8	
LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
BLACK VINYL DRIVER SEAT COVER		
BLACK VINYL PASSENGER SEAT COVER		
BLACK SEAT BELTS		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES		
DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

*

3 EXTRA PROGRAMMABLE
 SWITCHES/INDICATORS
 \$C1A0208ZZ,C1B0209ZZ,C1C0210ZZ
 ELECTRONIC ACCELERATOR CONTROL
 NO INSTRUMENT PANEL-DRIVER
 FULLY CONFIGURABLE CENTER INSTRUMENT
 PANELS
 BLACK GAUGE BEZELS
 LOW AIR PRESSURE INDICATOR LIGHT AND
 AUDIBLE ALARM
 DUAL NEEDLE PRIMARY AND SECONDARY AIR
 PRESSURE GAUGE
 INTAKE MOUNTED AIR RESTRICTION
 INDICATOR WITHOUT GRADUATIONS
 87 DECIBELS TO 112 DECIBELS AUTOMATIC
 SELF-ADJUSTING BACKUP ALARM
 ELECTRONIC CRUISE CONTROL WITH
 CONTROLS ON STEERING WHEEL SPOKES

3



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	Description	Weight Front	Weight Rear
	IGNITION SWITCH WITH NON REMOVABLE KEY		
	MANUAL REMOTE ENGINE STOP/START		
	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY		
	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY		
	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
	2 INCH ELECTRIC FUEL GAUGE		
	ENGINE REMOTE INTERFACE WITH ONE OR MORE SET SPEEDS		
	QUICKFIT POWERTRAIN INTERFACE CONNECTOR LOCATED BETWEEN SEATS WITH BLUNTCUTS		
	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) BETWEEN SEATS WITH BLUNTCUTS		
	ENGINE REMOTE INTERFACE CONNECTOR AT POWERTRAIN INTERFACE CONNECTOR		
	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
	ELECTRIC ENGINE OIL PRESSURE GAUGE		
	DIGITAL TRANSMISSION OIL TEMPERATURE IN DRIVER DISPLAY		
	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER		
	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY AND HOBBS PTO OPERATION HOUR METER	2	
N	(1) BACKUP CAMERA-END OF FRAME MOUNTED WITH 15 FOOT EXTRA LONG CABLE COILED AT END OF FRAME		
	NO OBSTACLE DETECTION SYSTEM		
	NOT APPLICABLE - UNIT NOT SPEC'D WITH DETROIT ASSURANCE		
	NO OBJECT DETECTION SYSTEM RELOCATION PREP		
	NO DR ASSIST SYSTEM		
	ELECTRONIC STABILITY CONTROL,4X2 W/SAFETY MIN BODY WEIGHT EXCEEDS 4,000LBS REQ		
	NO LANE DEPARTURE WARNING SYSTEM		
	NO OVERHEAD INSTRUMENT PANEL		

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Description	Weight Front	Weight Rear
1 QUICKFIT PROGRAMABLE MODULE (QPM/XMC)	10	
TOP OF DASH RAM MOUNT WITHOUT POWER OR GROUND, FOR CUSTOMER FURNISHED DEVICE		
7" B-PANEL INTERACTIVE TOUCHSCREEN DISPLAY RADIO W/ USB-C, APPLE CARPLAY, ANDROID AUTO, BLUETOOTH/AM/FM/SXM/WB, WITH MICROPHONE		
DASH MOUNTED RADIO		
(2) RADIO SPEAKERS IN CAB		
NO AM/FM RADIO ANTENNA		
NO CB RADIO MOUNTING PROVISION		
SHARKFIN MULTI-BAND ANTENNA, CENTRAL ROOF MOUNTING LOCATION: AM/FM/WEATHERBAND, WIFI/BLUETOOTH, SDAR/SIRIUSXM, GNSS/GPS		
INTEROPERABLE SDAR ANTENNA		
STANDARD RADIO WIRING WITH STEERING WHEEL CONTROLS		
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
STANDARD VEHICLE SPEED SENSOR		
ELECTRONIC 3000 RPM TACHOMETER		
DETROIT CONNECT PLATFORM HARDWARE		
(2) TMC RP1226 ACCESSORY CONNECTORS: (1) LOCATED BEHIND PASSENGER SIDE		
REMOVABLE DASH PANEL (1) CENTER OF OVERHEAD CONSOLE		
REMOTE ENGINE STOP WIRED TO CUSTOMER INTERFACE CONNECTOR		
FOUR EXTRA HARDWIRED SWITCHES IN DASH, ROUTE TO BETWEEN SEATS, BLUNTCUT		
HARDWIRE OUTPUT #1, NO SWITCH, 30 AMPS IGNITION POWER		
HARDWIRE OUTPUT #2, NO SWITCH, 30 AMPS BATTERY POWER		
HARDWIRE SWITCH #3, ON/OFF LATCHING, 10 AMPS BATTERY POWER		
HARDWIRE SWITCH #4, ON/OFF LATCHING, 10 AMPS BATTERY POWER		
(2) OVERHEAD MOUNTED LANYARD CONTROLS: (1) OFFICER AIR HORN AND (1) DRIVER AIR HORN		
NO TRAILER HAND CONTROL BRAKE VALVE		

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Description	Weight Front	Weight Rear
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS		
ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT		
INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH 40 AMP (20 AMP PER SIDE) TRAILER LAMP CAPACITY		
Design		
PAINTE: ONE SOLID COLOR		
Color		
CAB COLOR A: L2065EY SCHOOL BUS YELLOW ELITE EY		
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX		
STANDARD E COAT/UNDERCOATING		
Certification / Compliance		
U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		
Secondary Factory Options		
CORPORATE PDI CENTER IN-SERVICE ONLY		
DEALER/CUSTOMER ADVISED THAT TRAC TECH NO SPIN DIFF VOIDS THE WARRANTY ON THE RING & PINION AND AXLE SHAFTS PER MERITOR WARRANTY LITERATURE		
* TCU-AUTONEUTRAL NOT CONFIGURED		
Sales Programs		
NO ADJUSTMENT		

TOTAL VEHICLE SUMMARY

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Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	8861 lbs	3950 lbs	12811 lbs
Dealer Installed Options	0 lbs	0 lbs	0 lbs
Total Weight ⁺	8861 lbs	3950 lbs	12811 lbs

Other Factory Charges

GHG24 SURCHARGE - CUMMINS
NO SAFETY EVENT VIEWER
NO FACTORY PREP DATA SERVICES SELECTED
CUMMINS TARIFF CHARGE - \$205
TARIFF IMPACT FEE M2 106/112, 108/114 SD
MY27 ESCALATOR
STANDARD DESTINATION CHARGE

Extended Warranty

CUM 2017 L9: HD1 MD DTY 5 YEARS / 250,000 MILES / 402,500 KM
EXTENDED WARRANTY. FEX APPLIES
CUM 2017 L9: AT3 MD DTY 5 YEARS / 250,000 MILES / 402,500 KM
AFTERTREATMENT. FEX APPLIES
EXT COOLING COMPLETE: HD STANDARD-MODERATE 2
YEARS/200,000 MILES/322,000 KM
ALLISON 3500 RDS SERIES TRANSMISSION EXTEND WARRANTY, 5
YEARS/UNLIMITED MILES FEX
AXLE: NON-DETROIT SINGLE REAR ONLY: HD STANDARD 5
YEARS/200,000 MILES/322,000 KM EXTENDED COVERAGE

Dealer Installed Options

	Weight Front	Weight Rear
ASPEN AERIALS QUOTE D60831 DATED AUGUST 31, 2026	0	0
UPGRADE DIFF & AXLE WARRANTY TO 36 350,000	0	0

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Total Dealer Installed Options 0 lbs 0 lbs

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

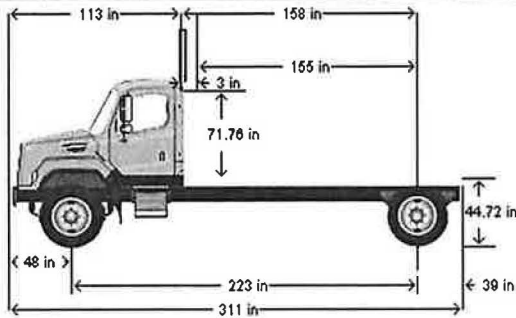
(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.

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DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....114SD
Wheelbase (545)..... 5675MM (223 INCH) WHEELBASE
Rear Frame Overhang (552)..... 1000MM (39 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)..... NO FIFTH WHEEL
Mounting Location (577)..... NO FIFTH WHEEL LOCATION
Maximum Forward Position (in).....0
Maximum Rearward Position (in).....0
Amount of Slide Travel (in).....0
Slide Increment (in).....0
Desired Slide Position (in).....0.0
Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682)..... NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016)..... RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY
WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE
Cab to Body Clearance (in).....3.0

TABLE SUMMARY - DIMENSIONS

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Dimensions	Inches
Bumper to Back of Cab (BBC)	113.4
Bumper to Centerline of Front Axle (BA)	47.9
Front Axle to Back of Cab (AC)	65.6
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	157.9
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	154.9
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	197.3
Cab Height (CH)	71.8
Wheelbase (WB)	223.4
Frame Overhang (OH)	39.0
Overall Frame Length	292.9
Overall Length (OAL)	310.7
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	44.7

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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GVWR

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model..... 114SD
Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs)..... 13220.0
Expected Pusher Axle(s) Load (lbs)..... 0.0
Expected Rear Axle(s) Load (lbs)..... 21000.0
Expected Tag Axle(s) Load (lbs)..... 0.0
Expected GVW (lbs)..... 34220
Expected GCW (lbs)..... 0.0
Front Axle (400)..... DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620)..... 14,600# FLAT LEAF FRONT SUSPENSION
Front Hubs (418)..... CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502)..... ALCOA 88167X 22.5X8.25 10-HUB 5.81 INSET ALUMINUM DISC FRONT WHEELS
Front Tires (093)..... GOODYEAR G751 MSA 12R22.5 16 PLY RADIAL FRONT TIRES
Front Brakes (402)..... MERITOR EX+LS AXIAL AIR DISC FRONT BRAKES
Steering Gear (536)..... TRW TAS-85 POWER STEERING
Rear Axle (420)..... MERITOR RS-23-160 23,000# R-SERIES SINGLE REAR AXLE
Rear Suspension (622)..... 23,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING
HELPER
Rear Hubs (450)..... CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Rear Disc Wheels (505)..... ALCOA 88167X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS
Rear Tires (094)..... CONTINENTAL HDC1HT 11R22.5 16 PLY RADIAL REAR TIRES
Rear Brakes (423)..... MERITOR EX+LS AXIAL AIR DISC REAR BRAKES
Pusher / Tag Axle (443)..... NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626)..... NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449)..... NO PUSHER OR TAG HUBS
Dead/Pusher/Tag Disc Wheels (509)..... NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095)..... NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456)..... NO PUSHER/TAG BRAKES

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TABLE SUMMARY - GVWR

	Front	Rear
Axle Component Weight Ratings		
Axles	14700	23000
Suspension	14600	23000
Hubs	14700	26000
Brakes	14700	23000
Wheels	14800	29600
Tires	14780	24020
Power Steering	18000	N/A
GAWR (per axle)	14600	23000
GAWR (per axle system)	14600	23000
Expected Load (per axle system)	13220	21000
GVWR due to Frame	90000	
GVWR due to Transmission	80000	
Vehicle GVWR Summary		
Calculated GVWR	37600	
Expected GVWR	34220	
All weights displayed in pounds		

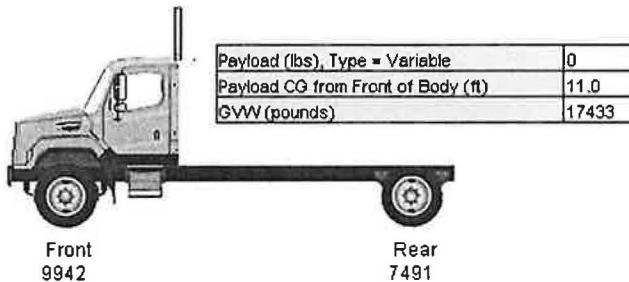
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TRUCK WEIGHT



VEHICLE SPECIFICATIONS SUMMARY - TRUCK WEIGHT

Model..... 114SD
 Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Expected Front Axle(s) Load (lbs)..... 13220.0
 Expected Pusher Axle(s) Load (lbs)..... 0.0
 Expected Rear Axle(s) Load (lbs)..... 21000.0
 Expected Tag Axle(s) Load (lbs)..... 0.0
 Expected GVW (lbs)..... 34220
 Expected GCW (lbs)..... 0.0
 Wheelbase (545)..... 5675MM (223 INCH) WHEELBASE
 Pusher / Tag Axle (443)..... NO PUSHER OR TAG AXLE
 Front Axle to Back of Cab (in)..... 65.551
 Cab to Body Clearance (in)..... 3.0
 Front Axle to Body (in)..... 68.551
 Truck Configuration (AA3)..... DRY VAN BODY
 Body Length (ft)..... 22.0
 Body Width (in)..... 96.0
 Body Weight (lbs)..... 3500.0
 Body Horiz CG from Body Front (ft)..... 11.0
 Body Front to Rear Axle(s) CL (ft)..... 12.91
 Driver Weight (lbs)..... 500.0
 Driver Horizontal CG from Front Axle (in)..... 39.18

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Left-Hand Primary Fuel/Hydraulic Tank (204) 70 GALLON/264 LITER ALUMINUM FUEL TANK - LH
 Left Fuel Tank Horizontal CG (in) 106.22
 Right-Hand Primary Fuel/Hydraulic Tank (206) NO RH FUEL TANK
 Right Fuel Tank Horizontal CG (in) 0

TABLE SUMMARY - TRUCK WEIGHT

Item	Front(s)	Rear(s)	Total
Chassis Tare	8861	3950	12811
Fuel / Oil	311	311	622
Driver	412	88	500
Dealer Installed Options	0	0	0
Accessories Total	0	0	0
Body Tare	358	3142	3500
Truck Tare Weight	9942	7491	17433
Payload Total	0	0	0
Calculated Axle Loads	9942	7491	17433
Expected Axle Loads / GVW	13220	21000	34220
GAWR / GVWR	14600	23000	37600
Payload CG From Front of Body		11 feet	
Payload CG From Front Axle		16.7 feet	
Payload Distribution		Variable	
All weights displayed in pounds			

Prepared for:
 WEST VIRGINIA DEPT OF HIGHWAYS
 83 BRUSHY FORK XING

 BUCKHANNON, WV 26201
 Phone: 304-473-5354

Prepared by:
 Jackie Cummings
 MATHENY MOTOR TRUCK
 COMPANY
 50 Matheny Lane
 Mineral Wells, WV 26150
 Phone: 3044854418

Item	Front(s)	Rear(s)	Total
Chassis Tare	8861	3950	12811
Fuel / Oil	311	311	622
Driver	412	88	500
Dealer Installed Options	0	0	0
Accessories Total	0	0	0
Body Tare	358	3142	3500
Truck Tare Weight	9942	7491	17433
Payload Total	0	0	0
Calculated Axle Loads	9942	7491	17433
Expected Axle Loads / GVW	13220	21000	34220
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Payload CG From Front of Body		11 feet	
Payload CG From Front Axle		16.7 feet	
Payload Distribution		Variable	
All weights displayed in pounds			

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

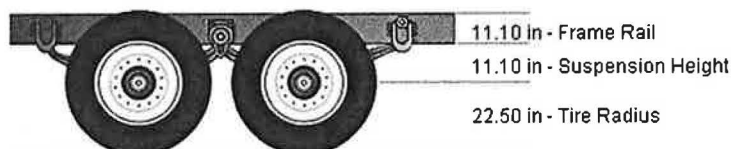
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UNLADEN FRAME HEIGHT

Unladen Height	Requested	Calculated
Frame (in)	N/A	44.70



VEHICLE SPECIFICATIONS SUMMARY - UNLADEN FRAME HEIGHT

Model..... 114SD
Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Frame Rails (546)..... 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI(546)
Web Height (in)..... 11.125
Flange Thickness (in)..... 0.4375
Rear Suspension (622)..... 23,000# 52 INCH VARIABLE RATE MULTI-LEAF SPRING REAR SUSPENSION WITH LEAF SPRING HELPER
Rear Suspension Ride Height (621)..... SPRING SUSPENSION - 1.50" AXLE SPACER
Axle C/L to Bottom of Frame (in)..... 11.095
Rear Tires (094)..... CONTINENTAL HDC1HT 11R22.5 16 PLY RADIAL REAR TIRES
Unladen Radius (in)..... 22.5
Fifth Wheel (578)..... NO FIFTH WHEEL
Requested Min Height (in)..... 0.0
Requested Max Height (in)..... 1
Fifth Wheel Leg Height (582)..... NO FIFTH WHEEL LEG HEIGHT
Rear Tow Device (587)..... NO REAR TOWING DEVICE
Tow Device Height(588)..... NO REAR TOW DEVICE HEIGHT
Requested Min Height (in)..... 30.0
Requested Max Height (in)..... 50.0

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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545) 5675MM (223 INCH) WHEELBASE
 Frame Rails (546) 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI(546)
 Yield Strength (psi)..... 120000
 Section Modulus (per rail) (cu in).....21.6
 RBM (per rail) (lbf-in).....4337400
 Inner Frame Reinforcement (547) 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
 Outer Frame Reinforcement (548) NO OUTER FRAME REINFORCEMENT

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	5675MM (223 INCH) WHEELBASE
Frame	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
Inner Frame Reinforcement	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	31.00
Frame RBM - per rail (lbf-in)	3715200

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