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Clackamas County
www.clackamas.us



CLACKAMAS

WATER ENVIRONMENT SERVICES

GREGORY L. GEIST | DIRECTOR

Water Quality Protection
Surface Water Management
Wastewater Collection & Treatment

September 17, 2026

BCC Agenda Item: _____

Board of County Commissioners
Acting as the governing body of Water Environment Services
Clackamas County

Approval of a Board Order to purchase a 2027 tanker truck Western Star 49X – DD15 with Allison Transmission from Premier Truck Group of Portland. Board Order Value is \$441,859.40. Funding is through WES Sanitary Sewer Construction Funds. No County General Funds are involved.

Previous Board Action/Review: NA

Performance Clackamas: 1. This project supports WES' strategic plan to upgrade WES' infrastructure to ensure the sustainable delivery of reliable, high-quality, and climate-resilient clean water services that support the growth and vitality of our communities, natural environment, and economy.

2. This project supports the County's Strategic Priorities of Strong Infrastructure, Vibrant Economy, and Safe, Secure and Livable Communities.

Counsel Review: Yes

Procurement Review: Yes

Contact Person: Matt House

Contact Phone: 503-742-4601

EXECUTIVE SUMMARY: WES is need of a new tanker truck that will be purchased under state of Oregon contract PA4663 and will replace the 1997 Freightliner 120SD tanker truck currently in service. The 1997 Freightliner truck is scheduled for replacement in WES's fleet management plan and is included in the adopted budget under the Fleet category. The new tanker will have WES's largest hauling capacity, giving it flexibility for use in all effluent hauling from any of WES's facilities. Along with its large capacity it can also haul any of WES's trailers which will give it great hauling capacity. The new replacement tanker will have a larger, more powerful pump that will increase productivity and allow the truck to stand out for use at all facilities, whether pumping from our Boring Facility or pumping into storage. The new truck comes with modern safety equipment and will better protect WES employees, and new engine technology has improved over the years creating better fuel economy and will give welcome savings for fuel costs over time. This project will use a new tank which can outlast the chassis and be used for multiple generations for the typical chassis life span. This project will improve cost, safety, reliability and efficiency over the current truck.

RECOMMENDATION: Staff recommend that the Board of County Commissioners of Clackamas County, acting as the governing body of Water Environment Services, approve a Board Order to purchase a 2027 tanker truck Western Star 49X – DD15 with Allison Transmission from Premier Truck Group of Portland.

Respectfully submitted,

Ron Wierenga
Assistant Director, WES

Attachment: Board Order

For Filing Use Only

**BEFORE THE BOARD OF COUNTY COMMISSIONERS
OF CLACKAMAS COUNTY, STATE OF OREGON
ACTING AS THE GOVERNING BODY OF WATER ENVIRONMENT SERVICES**

In the Matter of Approving
Issuance of Purchase Order for
Purchase of a 2027 Tanker Truck



Board Order No. _____

Page 1 of 2

Whereas, the governing body of Water Environment Services, an intergovernmental entity formed pursuant to ORS Chapter 190 (“District”), has authority to sign all contracts and any amendments or renewals of the same (“Board”);

Whereas, Oregon Revised Statutes (“ORS”) Chapter 279A.200-220 and Local Contact Review Board Rule C-046-0400 permit Water Environment Services to purchase goods and services using cooperative contracts;

Whereas, the State of Oregon, through its Department of Administrative Services, established a cooperative price agreement, contract number PO-10700-4663 (“Cooperative Contract”), with PTG Oregon, LLC doing business as Premier Truck Group (“Contractor”) for the purchase of Freightliner and Western Star Brand Vehicles;

Whereas, Water Environment Services, desires to utilize the Cooperative Contract to purchase one (1) new 2027 tanker truck E278461, per the Contractor quote attached, for a total not to exceed **\$441,859.40** (“Tanker Truck”);

Whereas, the Clackamas County Department of Finance requests authority to purchase the Tanker Truck by issuance of a purchase order (“PO”); and

Whereas, a PO is issued directly through the Clackamas County Department of Finance’s management software with no signature required or available;

NOW THEREFORE, the Clackamas County Board of County Commissioners, acting as the governing body of Water Environment Services, orders as follows:

1. The requested purchase of the Tanker Truck through the Cooperative Contract in the amount of **\$441,859.40** is hereby approved; and
2. The Clackamas County Department of Finance is hereby-delegated limited authority to issue a PO to purchase the Tanker Truck.

**BEFORE THE BOARD OF COUNTY COMMISSIONERS
OF CLACKAMAS COUNTY, STATE OF OREGON**

In the Matter of Approving
Issuance of Purchase Order for
Purchase of a 2027 Tanker Truck



Board Order No. _____

Page 2 of 2

DATED this 17th day of September , 2026

WATER ENVIRONMENT SERVICES

Chair

Recording Secretary

Prepared for:
ROBERT RUSSO
DEPARTMENT OF
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150 BEAVERCREEK RD
OREGON CITY, OR 97045
Phone: 503-742-4570

Prepared by:
Rich Smith
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Phone: 503-463-6303

***A proposal for Clackamas County - WES
State of Oregon DAS Contract #4663***

Prepared by
PREMIER TRUCK GROUP OF PORTLAND
Rich Smith

Jun 20, 2026

2027 Western Star 49X – DD15 w/ Allison Transmission

DAS Contract Chassis Price - \$176,017.92

Began Tank Quote – Tank Only - \$77,382.00

Began Tank Quote – Build and Parts - \$186,450.08

Estimated CAT - \$1,759.40

Oregon Doc Fee - \$250.00

Total Package - \$441,859.40



Components shown may not reflect all spec'd options and are not to scale

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

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-30X	47X/49X PRL-30X (EFF:MY27 ORDERS)		
Data Version			
DRL-042	SPECPRO21 DATA RELEASE VER 042		
Vehicle Configuration			
001-472	WESTERN STAR 49X	9,175	6,500
004-227	2027 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-006	TRAILER TOWING PROVISION AT END OF FRAME WITH SAE J560	10	10
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-003	TRUCK/TRAILER CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
99D-019	CARB CLEAN IDLE LABELS NOT FOR INITIAL REGISTRATION IN STATES REQUIRING CARB EMISSIONS CERTIFICATION (INCLUDES 6X4 INCH LABELS ON LOWER FORWARD OF DRIVER DOOR)		
AF2-037	DOMICILED OREGON		
A85-011	CONSTRUCTION SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-002	LIQUID BULK COMMODITY		
AA5-006	TERRAIN/DUTY: 10% (SOME) OF THE TIME, IN TRANSIT, IS SPENT ON NON-PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-003	MAINTAINED GRAVEL OR CRUSHED ROCK - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-1A5	WESTERN STAR VOCATIONAL WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		

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	Data Code	Description	Weight Front	Weight Rear
	A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		
	A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 66000.0 lbs		
	A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs		
Truck Service				
	AA3-003	TANK BODY		
	AF3-2G2	ABC SUPPLY CO., INC.		
Tractor Service				
	AA2-005	FLATBED TRAILER		
	AH6-001	SINGLE (1) TRAILER		
Engine				
	101-28N	DETROIT DD15 GEN 5 HIGH POWER 14.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB-FT @ 975 RPM		
Electronic Parameters				
	79A-065	65 MPH ROAD SPEED LIMIT		
	79F-013	FLEET MANAGEMENT - DAILY ENGINE USAGE ENABLED		
	79K-013	PTO MODE ENGINE RPM LIMIT - 1600 RPM		
	79L-022	PTO MODE PTO 1 THROTTLE OVERRIDE ENABLED		
	79P-032	PTO RPM CONTROL WITH STEERING WHEEL SWITCHES		
	79S-006	PTO MODE CANCEL VEHICLE SPEED - 15 MPH		
	79T-001	PTO MODE RPM INCREMENT - 25 RPM		
	79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
	79W-008	ONE PTO SPEED VIA DASH SWITCH		
	79X-003	PTO SPEED 1 SETTING - 800 RPM		
	80G-002	PTO MINIMUM RPM - 700		
	80L-001	ENABLE AUTO ENGINE RPM ELEVATE FOR EXTENDED IDLE		
	80W-002	MAINTENANCE SYSTEM WITH MENU IN INSTRUMENT CLUSTER AND NO POP-UPS		
	80S-004	PTO 1, DASH SWITCH, ENGAGE WHILE DRIVING		
N	80T-013	PTO 2, NO SWITCH, TEM SUPPLIED REQUEST AND INTERLOCKS, WITH PTO CONNECTIONS, NO FACTORY INTERLOCKS		
	87W-014	PTO 2 MODE ENGINE RPM LIMIT - 1250 RPM		

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Data Code	Description	Weight Front	Weight Rear
Engine Equipment			
99C-024	EPA 2010/GHG 2024 CONFIGURATION		
13E-006	ALUMINUM OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-116	SIDE OF HOOD AIR INTAKE WITH ENGINE MOUNTED AIR CLEANER		
124-1E6	LN 12V 185 AMP BRUSHLESS 2333GH PAD MOUNT ALTERNATOR WITH REMOTE BATTERY VOLT SENSE, LAMP TERMINAL AND HEX SHAFT	-10	
292-222	(3) DTNA GENUINE, HIGH TEMP AGM STARTING AND CYCLING, MIN 2775CCA, 570RC, THREADED STUD BATTERIES		
290-1CD	BATTERY BOX WITH ALUMINUM COVER MOUNTED SHORT SIDE TO RAIL	-25	
282-003	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-020	UNPOLISHED ALUMINUM WST BATTERY BOX COVER		
33M-001	AUXILIARY POWER NET DISTRIBUTION BLOCK FOR BODY BUILDER USE	10	
293-058	NON-ESSENTIAL POSITIVE LOAD DISCONNECT, IN CAB CONTROL SWITCH MOUNTED OUTBOARD OF DRIVER SEAT	2	
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
306-015	PROGRESSIVE LOW VOLTAGE DISCONNECT AT 12.3 VOLTS FOR DESIGNATED CIRCUITS	2	
107-046	BW MODEL FE-921 19.0 CFM SINGLE CYLINDER AIR COMPRESSOR WITH SAFETY VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-002	JACOBS COMPRESSION BRAKE		
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE		
28F-015	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER AND DASH MOUNTED INHIBIT SWITCH		

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Data Code	Description	Weight Front	Weight Rear
239-032	11 FOOT 00 INCH (132 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
233-017	STANDARD CURVE BRIGHT UPPER STACK(S)		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK	9	3
23Z-005	UNPOLISHED ALUMINUM WST DIESEL EXHAUST FLUID TANK COVER		
43X-001	LH HEAVY DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD		
273-059	ELECTRONICALLY CONTROLLED VARIABLE SPEED VISCOUS FAN DRIVE		
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED		
122-123	DAVCO 385 FUEL/WATER SEPARATOR WITH ESOC	10	
110-068	DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR		
118-001	FULL FLOW OIL FILTER		
266-107	1400 SQUARE INCH VOCATIONAL RADIATOR		
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
261-001	STANDARD CHARGE AIR COOLER PLUMBING		
270-023	HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD		
138-005	PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER	4	
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
132-998	NO AIR INTAKE WARMER	-10	
155-076	DELCO 12V MOD 3.175-39MT+ STARTER WITH ENGINE ECU SOFTWARE PROTECTION AND INTEGRATED MAGNETIC SWITCH	-45	

Transmission

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	Data Code	Description	Weight Front	Weight Rear
N	342-1M3	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	170	70
Transmission Equipment				
	343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV		
	84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		
	84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
	84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
	84E-013	S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
	84F-012	S1 PERFORMANCE SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
	84G-009	1800 RPM PRIMARY MODE SHIFT SPEED		
	84H-009	1800 RPM SECONDARY MODE SHIFT SPEED		
	84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED		
	85E-008	MAXIMUM ENGINE SPEED FOR PTO ENGAGEMENT 850 RPM		
	353-073	QUICKFIT BODY LIGHTING CONNECTOR UNDER CAB, WITH CAP		
	34C-011	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR		
	362-525	(2) CUSTOMER INSTALLED CHELSEA 890 SERIES PTO'S		
	363-010	PTO MOUNTING, LH SIDE AND TOP RH SIDE OF MAIN TRANSMISSION ALLISON		
	341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
	345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
	370-006	WATER TO OIL TRANSMISSION COOLER	15	
	346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		

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Data Code	Description	Weight Front	Weight Rear
35T-001	ATF-SYNTHETIC AUTOMATIC TRANSMISSION FLUID		
Front Axle and Equipment			
400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	190	
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
402-075	BENDIX ADB22X AIR DISC FRONT BRAKES	20	
403-002	NON-ASBESTOS FRONT BRAKE LINING		
419-004	FRONT DISC BRAKE ROTORS		
427-001	FRONT BRAKE DUST SHIELDS	5	
409-006	FRONT OIL SEALS		
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
405-030	FRONT AIR DISC BRAKE INTERNAL ADJUSTERS		
536-104	DUAL POWER STEERING GEARS, BENDIX 16-20K	80	
534-003	4 QUART POWER STEERING RESERVOIR		
533-001	OIL/AIR POWER STEERING COOLER		
40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front Suspension			
620-025	20,000# TAPERLEAF FRONT SUSPENSION	145	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-111	MERITOR RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE WITH PUMP		450
450-058	CONMET PRESET PLUS PREMIUM ALUMINUM REAR HUBS		
421-456	4.56 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-044	RPL25 MERITOR MAIN DRIVELINE		
388-039	RPL20 MERITOR INTERAXLE DRIVELINE		
452-005	DRIVER CONTROLLED TRACTION DIFFERENTIAL - REAR MOST TANDEM/TRIDEM REAR AXLE		20

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Data Code	Description	Weight Front	Weight Rear
878-021	(1) INTERAXLE LOCK VALVE AND (1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR-REAR AXLE VALVE		
87A-005	INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH		
87B-015	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH, ENGAGE <5 MPH, DISENGAGE >25 MPH		
423-075	BENDIX ADB22X AIR DISC REAR BRAKES		-30
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-003	STANDARD BRAKE CHAMBER LOCATION		
451-005	REAR DISC BRAKE ROTORS		
425-002	REAR BRAKE DUST SHIELDS		10
440-006	REAR OIL SEALS		
426-094	AIR DISC LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		
428-030	REAR AIR DISC BRAKE INTERNAL ADJUSTERS		
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE		
42T-001	STANDARD REAR AXLE BREATHER(S)		
Rear Suspension			
622-108	AIRLINER 46,000# REAR SUSPENSION WITH CHAIN CLEARANCE		330
621-108	9.5 INCH NOMINAL RIDE HEIGHT (460MM GLOBAL REFERENCE HEIGHT)		
431-005	RESTRAINED AXLE SEATS IN AXLE CLAMP GROUP		
624-025	55 INCH AXLE SPACING		
888-078	IGNITION CONTROLLED ELECTRIC DUMP SWITCH FOR AIR SUSPENSION WITH STATE RETENTION AND GAUGE		
87D-012	REAR AIR SUSPENSION DUMP VALVE AUTOFILL >5 MPH WITH INDICATOR LIGHT		
910-001	SINGLE AIR REAR SUSPENSION LEVELING VALVE		
623-002	TRANSVERSE CONTROL RODS		
439-005	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM) (AIR RIDE SUSPENSION)		20
Pusher / Tag Equipment			
429-998	NO PUSHER/TAG BRAKE DUST SHIELDS		
Brake System			

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Data Code	Description	Weight Front	Weight Rear
490-1AV	WABCO 6S/6M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF SWITCH		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
46E-001	STANDARD AIR MANAGEMENT UNIT		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
483-004	WABCO OIL COALESCING FILTER FOR AIR DRYER		
479-003	AIR DRYER MOUNTED INBOARD ON LH RAIL		
460-014	STEEL AIR TANKS MOUNTED BELOW FRAME RAILS	5	5
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)		
485-019	QUICK DISCONNECT FITTING W/HOSE FOR TIRE INFLATION KIT NEAR LH CAB ENTRY DOOR	2	

Trailer Connections

914-025	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND DUST COVERS		
919-063	(1) QUICKFIT PROGRAMMABLE SOLENOID W/STATE RETENTION PLUMBED TO BACK OF CAB		
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION		
308-020	SUPPLEMENTAL TRAILER WIRING WITH CENTER PIN IGNITION		
303-025	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME		
334-003	SUPPLEMENTAL ISO 3731 7-WAY RECEPTACLE LOCATED WITH PRIMARY RECEPTACLE END OF FRAME		
310-998	NO TRAILER ELECTRICAL CABLE	-10	

Wheelbase & Frame

545-078	5575MM (219.5 INCH) WHEELBASE		
546-106	13.0MM X 87.0MM X 311.0MM STEEL FRAME (0.51X3.43X12.24 INCH) 120 KSI	370	330
547-037	0.236 INCH (6.00MM) C-CHANNEL INNER FRAME REINFORCEMENT	140	350
552-063	2550MM (100 INCH) REAR FRAME OVERHANG		

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Data Code	Description	Weight Front	Weight Rear
55W-009	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-110	410
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 144.49 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 365.05 in		
ZF1-99D	FRAME HEIGHT TOP FRONT UNLADEN : 43.91 in		
ZF2-99D	FRAME HEIGHT TOP FRONT LADEN : 40.5 in		
ZF3-99D	FRAME HEIGHT TOP REAR UNLADEN : 42.11 in		
ZF4-99D	FRAME HEIGHT TOP REAR LADEN : 40.55 in		
553-001	SQUARE END OF FRAME		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
561-007	HEAVY DUTY BACK OF TRANSMISSION CROSSMEMBER	10	
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)	10	10
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		
568-001	STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		

Chassis Equipment

025-001	UNPOLISHED ALUMINUM WST EQUIPMENT COVERS		
674-998	NO LH OR RH BACK OF CAB ACCESS	-10	-10
556-127	BRIGHT STEEL 1/8 INCH VOCATIONAL BUMPER		
586-015	FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS		
558-070	REMOVABLE FRONT TOW/RECOVERY DEVICE, STORED ON CHASSIS FRAME		
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
551-034	CLASS 10.9 THREADED METRIC FASTENERS		
44Z-002	EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE		
605-003	LEVEL FRAME RAILS (+/- 1%) WHEN CHASSIS IS LOADED TO FRONT AND REAR SUSPENSION RATINGS		
924-007	UPFIT ROUTING AND CLIPPING BRACKET, LH, BOC TO SUSPENSION, UPPER & LOWER SUPPORTS		
928-007	UPFIT ROUTING AND CLIPPING BRACKET, RH, BOC TO SUSPENSION, UPPER & LOWER SUPPORTS		

Fuel Tanks

Prepared for:
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 OREGON CITY, OR 97045
 Phone: 503-742-4570

Prepared by:
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Data Code	Description	Weight Front	Weight Rear
204-154	80 GALLON/302 LITER ALUMINUM FUEL TANK - LH	-10	
218-006	25 INCH DIAMETER FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-13W	MICHELIN X MULTI HLZ 385/65R22.5 20 PLY RADIAL FRONT TIRES	124	
094-2A7	MICHELIN XDS2 11R22.5 16 PLY RADIAL REAR TIRES		192
Wheels			
502-1H5	ALCOA LVL ONE 82462X 22.5X12.25 10-HUB PILOT 4.68 INSET 10-HAND ALUMINUM DISC FRONT WHEELS	-8	
505-1M9	ALCOA LVL ONE 88565X 22.5X8.25 10-HUB PILOT HD 10-HAND ALUMINUM DISC REAR WHEELS		-160
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
829-116	121 INCH BBC ALUMINUM CONVENTIONAL CAB		
82A-028	STAINLESS STEEL CAB ACCENT MOLDING		
667-001	FRONT FENDERS		
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10	
678-068	SAFETY YELLOW INTERIOR GRAB HANDLES WITH ADDED LOWER LH AND RH A PILLAR GRAB HANDLES AND LH AND RH EXTERIOR NON-SLIP GRAB HANLDES		
65X-009	BRIGHT HOOD MOUNTED AIR INTAKE GRILLE, BLACK SCREEN		
640-016	X-SERIES STEEL REINFORCED ALUMINUM CAB		
644-048	X-SERIES VOCATIONAL HOOD		
67U-001	HOOD OPENING ASSIST WITH LOCKING STRUT		

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Data Code	Description	Weight Front	Weight Rear
652-016	WESTERN STAR NAMEPLATES		
727-096	DUAL ROUND AIR HORNS, SINGLE BASE, MOUNTED UNDER CAB		
726-002	DUAL ELECTRIC HORNS		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
650-008	AIR CAB MOUNTING		
327-006	SWITCH, INDICATOR LIGHT AND WIRING FOR (1) CUSTOMER FURNISHED BEACON		
312-095	DUAL STAGE INTELLIGENT LED HEADLIGHTS WITH HEATED LENS SYSTEM		
302-072	ROOF MOUNTED LED MARKER LIGHTS		
311-003	DAYTIME RUNNING LIGHTS WITH ROCKER/TOGGLE MOMENTARY INTERRUPTER SWITCH		
294-1AY	INTEGRAL LED STOP/TAIL/BACKUP LIGHTS		
300-043	LED SIDE TURN SIGNAL		
744-106	C-BAR MIRROR SYSTEM WITH DUAL HEATED MIRRORS WITH INTEGRAL HEATED CONVEX, DUAL REMOTE, STAINLESS STEEL BACK COVER, AND BLACK C-BAR		
796-001	102 INCH EQUIPMENT WIDTH		
743-209	LH AND RH CONVEX MIRRORS INTEGRAL WITH PRIMARY MIRRORS		
74A-001	RH DOWN VIEW MIRROR		
729-001	STANDARD SIDE/REAR REFLECTORS		
677-098	UNPOLISHED ALUMINUM WST AFTERTREATMENT SYSTEM COVER		
275-061	PARK BRAKE REMINDER WARNING SYSTEM		
776-998	NO SLEEPER VENT	-10	
768-064	SINGLE SOLAR TINTED REAR WINDOW, (1) 31 INCH X 20 INCH	-10	
663-019	1-PIECE ROPED-IN SOLAR GREEN GLASS WINDSHIELD		
659-006	8 LITER (2 GAL) WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITH FLUID LEVEL INDICATOR		
Cab Interior			
055-015	X-SERIES BASE INTERIOR TRIM LEVEL PACKAGE		
707-1C3	CHARCOAL BLACK VINYL BASE LEVEL INTERIOR		
70K-016	CARBON WITH BASE BLACK ACCENT		

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Data Code	Description	Weight Front	Weight Rear
772-035	BLACK MATS WITH ADDED FLOOR HEAT AND NOISE INSULATION		
785-033	(1) DUAL USB-C CHARGING OUTLET, (1) LIGHTER OUTLET AND ASH TRAY		
691-001	FORWARD ROOF MOUNTED CONSOLE		
693-019	LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS		
741-015	(2) COAT HOOKS ON BACKWALL OF CAB		
745-998	NO UPPER BUNK	-50	-50
738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY		
720-025	5 LB. FIRE EXTINGUISHER MOUNTED INBOARD OF DRIVER SEAT	10	
170-015	STANDARD HEATER PLUMBING		
698-001	RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
739-034	PREMIUM INSULATION		
324-1B3	STANDARD LED CAB LIGHTING		
787-998	NO SECURITY DEVICE		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
78G-006	KEY QUANTITY OF 6		
655-028	LH AND RH ELECTRIC DOOR LOCKS WITH AUTO UNLOCK FEATURE WHEN DOOR IS SET FROM OPEN TO CLOSED POSITION		
64C-003	BLACK DOOR HANDLES		
740-998	NO MATTRESS	-20	-15
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
756-1J6	PREMIUM 2.0 HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	20	
760-1J6	PREMIUM 2.0 HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	40	15
759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8	
758-139	BLACK VINYL DRIVER SEAT COVER WITH NO LOGO		
761-139	BLACK VINYL PASSENGER SEAT COVER WITH NO LOGO		
763-1AA	3 POINT ADJUSTABLE D-RING RETRACTOR DRIVER AND FIXED D-RING RETRACTOR PASSENGER SEAT BELTS		

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Data Code	Description	Weight Front	Weight Rear
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
540-044	4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		
Instruments & Controls			
185-004	STANDARD FOOT PEDAL SYSTEM		
106-002	ELECTRONIC ACCELERATOR CONTROL		
870-001	BLACK GAUGE BEZELS		
734-018	STANDARD CENTER INSTRUMENT PANEL		
838-001	(1) PNEUMATIC SINGLE BRAKE APPLICATION AIR GAUGE		
840-001	DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE		
198-002	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
721-001	97 DB BACKUP ALARM		3
149-015	ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
157-009	MANUAL REMOTE ENGINE STOP/START WITH MANUAL PTO RE-ENGAGE		
811-044	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY		
81B-003	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY		
160-045	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR WITH DUST CAP LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
845-011	FUEL FILTER RESTRICTION INDICATOR		
148-072	ENGINE REMOTE INTERFACE WITH ONE OR MORE SET SPEEDS		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
854-001	ENGINE OIL TEMPERATURE GAUGE		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		

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Data Code	Description	Weight Front	Weight Rear
867-004	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-123	PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE		
736-998	NO OBSTACLE DETECTION SYSTEM		
A87-998	NOT APPLICABLE - UNIT NOT SPEC'D WITH DETROIT ASSURANCE		
73K-998	NO SIDE OBJECT DETECTION SYSTEM		
72J-998	NO DR ASSIST SYSTEM		
49B-998	NO VEHICLE STABILITY ADVISOR OR CONTROL		
73B-998	NO LANE DEPARTURE WARNING SYSTEM		
73H-998	NO CAMERA/VIDEO/IMAGING SYSTEM		
35M-010	1 QUICKFIT PROGRAMABLE MODULE (QPM/XMC)	10	
6TS-008	(2) TMC RP1226 ACCESSORY CONNECTORS: (1) LOCATED BEHIND PASSENGER SIDE REMOVABLE DASH PANEL (1) CENTER OF OVERHEAD CONSOLE		
746-143	7" B-PANEL INTERACTIVE TOUCHSCREEN DISPLAY RADIO W/ USB-C, APPLE CARPLAY, ANDROID AUTO, BLUETOOTH/AM/FM/SXM/WB, WITH MICROPHONE		
747-001	DASH MOUNTED RADIO		
750-041	STANDARD SPEAKER SYSTEM		
753-007	AM/FM ANTENNA MOUNTED ON RH SIDE MIRROR		
748-006	POWER AND GROUND WIRING PROVISION OVERHEAD		
749-001	ROOF/OVERHEAD CONSOLE CB RADIO PROVISION		
751-001	SINGLE REMOTE SPEAKER WITH LEAD FOR 2- WAY RADIO		
752-004	SINGLE FIBERGLASS LH MIRROR MOUNTED CB ANTENNA WITH BRACKET AND LEAD		
78C-003	INTEROPERABLE SDAR ANTENNA		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
812-032	ELECTRONIC 2500 RPM TACHOMETER		
813-1C8	DETROIT CONNECT PLATFORM HARDWARE		

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	Data Code	Description	Weight Front	Weight Rear
	8D1-215	5 YEARS DETROIT CONNECT BASE PACKAGE(FEATURES VARY BY MODEL) DETROIT CONNECT PLATFORM		
	162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
N	329-129	FOUR EXTRA HARDWIRED SWITCHES IN DASH, ROUTE TO UNDER CAB, BLUNTCUT		
	4C1-025	HARDWIRE SWITCH #1, ON/OFF LATCHING, 20 AMPS IGNITION POWER		
	4C2-025	HARDWIRE SWITCH #2, ON/OFF LATCHING, 20 AMPS IGNITION POWER		
	4C3-016	HARDWIRE SWITCH #3, ON/OFF LATCHING, 20 AMPS IGNITION POWER		
	4C4-016	HARDWIRE SWITCH #4, ON/OFF LATCHING, 20 AMPS IGNITION POWER		
	81Y-005	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS ONLY		
	482-001	STANDARD TRACTOR PROTECTION VALVE		
	883-001	TRAILER HAND CONTROL BRAKE VALVE		
	842-006	DIGITAL TURBO AIR PRESSURE IN DRIVER DISPLAY		
	836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
	304-030	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS		
	882-004	TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
	299-020	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT		
	48H-003	QUICKFIT POWERTRAIN INTERFACE CONNECTOR UNDER CAB WITH CAPS		
*	4CH-002	2 EXTRA PROGRAMMABLE SWITCHES/INDICATORS		
		\$A1A0082ZZ,A1B0083ZZ		
	48C-003	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) UNDER CAB WITH CAP		

Design

065-000	PAINT: ONE SOLID COLOR
---------	------------------------

Color

980-5F6	CAB COLOR A: L0006EY WHITE ELITE EY
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

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Data Code	Description	Weight Front	Weight Rear
Certification / Compliance			

996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS
---------	--

Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	10290 lbs	8463 lbs	18753 lbs
Total Weight ⁺	10290 lbs	8463 lbs	18753 lbs

Other Factory Charges

R27-001	MY27 ESCALATOR
PAT-023	STEEL, ALUMINUM, AND CHINA TARIFF IMPACT FEE 47X/49X
RD1-215	5 YR DETROIT CONNECT CORE PACKAGE -DETROIT CONNECT PLATFORM
RD3-998	NO SAFETY EVENT VIEWER
P73-2WS	STANDARD DESTINATION CHARGE

(+) Weights shown are estimates only.

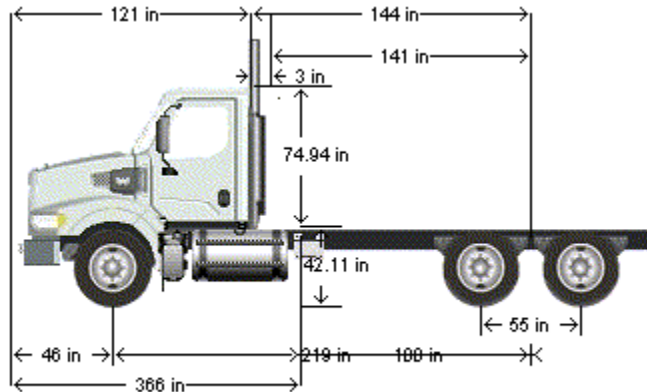
If weight is critical, contact Customer Application Engineering.

(***) 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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D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	49X
Wheelbase (545)	5575MM (219.5 INCH) WHEELBASE
Rear Frame Overhang (552)	2550MM (100 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)	121 INCH BBC 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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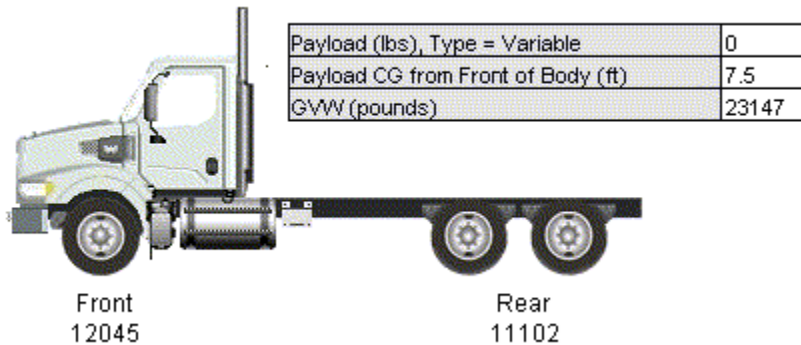
Dimensions	Inches
Bumper to Back of Cab (BBC)	121.5
Bumper to Centerline of Front Axle (BA)	46.5
Front Axle to Back of Cab (AC)	75.0
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	144.5
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	141.5
Back of 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	244.9
Cab Height (CH)	74.9
Wheelbase (WB)	219.5
Frame Overhang (OH)	100.4
Overall Frame Length	365.0
Overall Length (OAL)	366.3
Rear Axle Spacing	55.0
Unladen Frame Height at Centerline of Rear Axle	42.1

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

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TRUCK WEIGHT



VEHICLE SPECIFICATIONS SUMMARY - TRUCK WEIGHT

Model	49X
Cab Size (829).....	121 INCH BBC ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs)	46000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs)	66000
Expected GCW (lbs)	80000.0
Wheelbase (545)	5575MM (219.5 INCH) WHEELBASE
Pusher / Tag Axle (443).....	NO PUSHER OR TAG AXLE
Front Axle to Back of Cab (in).....	75
Cab to Body Clearance (in).....	3.0
Front Axle to Body (in).....	78
Truck Configuration (AA3)	TANK BODY
Body Length (ft)	15.0
Body Width (in)	96.0
Body Weight (lbs)	3200.0
Body Horiz CG from Body Front (ft)	7.5
Body Front to Rear Axle(s) CL (ft).....	11.79
Driver Weight (lbs).....	500.0
Driver Horizontal CG from Front Axle (in).....	N/A
Left-Hand Primary Fuel/Hydraulic Tank (204).....	80 GALLON/302 LITER ALUMINUM FUEL TANK - LH
Left Fuel Tank Horizontal CG (in).....	66.004

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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	10290	8463	18753
Fuel / Oil	502	192	694
Driver	502	-2	500
Dealer Installed Options	0	0	0
Accessories Total	0	0	0
Body Tare	751	2449	3200
Truck Tare Weight	12045	11102	23147
Payload Total	0	0	0
Calculated Axle Loads	12045	11102	23147
Expected Axle Loads / GVW	20000	46000	80000
GAWR / GVWR	20000	46000	66000
Payload CG From Front of Body		7.5 feet	
Payload CG From Front Axle		14 feet	
Payload Distribution		Variable	
All weights displayed in pounds			

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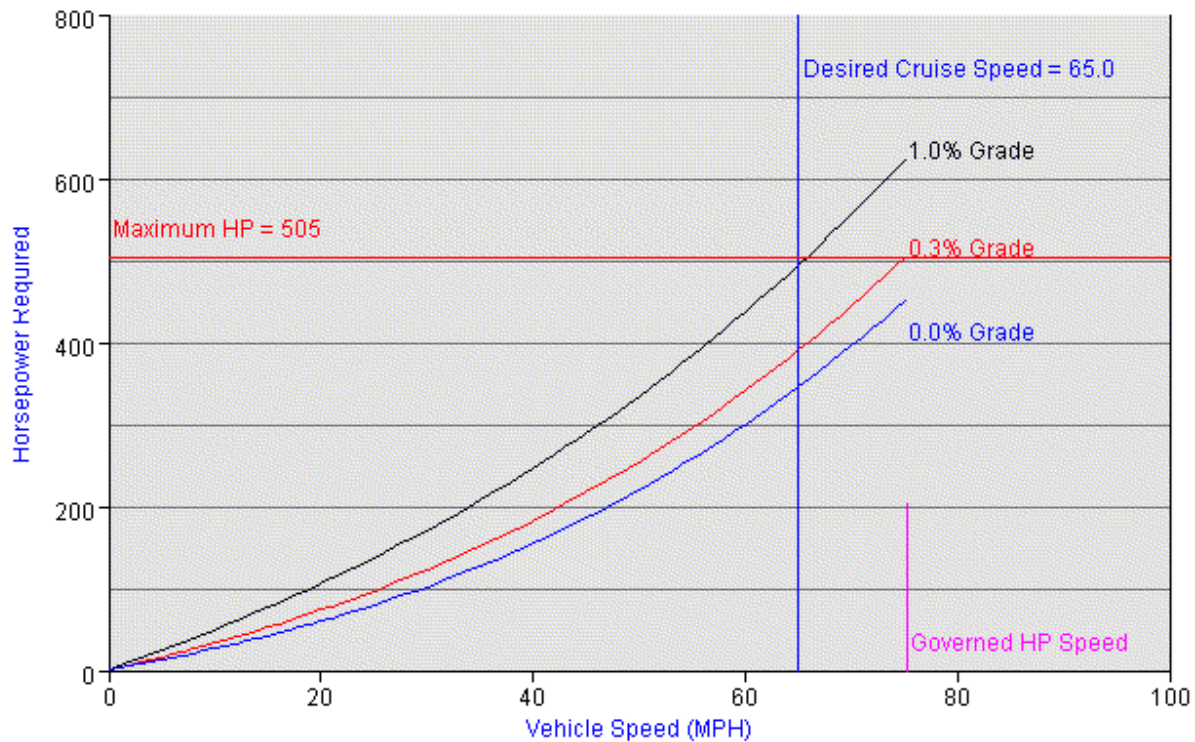
Item	Front(s)	Rear(s)	Total
Chassis Tare	10290	8463	18753
Fuel / Oil	502	192	694
Driver	502	-2	500
Dealer Installed Options	0	0	0
Accessories Total	0	0	0
Body Tare	751	2449	3200
Truck Tare Weight	12045	11102	23147
Payload Total	0	0	0
Calculated Axle Loads	12045	11102	23147
Expected Axle Loads / GVW	20000	46000	80000
GAWR / GVWR	20000	46000	66000
Payload CG From Front of Body		7.5 feet	
Payload CG From Front Axle		14 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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S P E E D A B I L I T Y



VEHICLE SPECIFICATIONS SUMMARY - SPEEDABILITY

Model	49X
Cab Size (829).....	121 INCH BBC ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph)	65.0
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	0.0

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Expected Rear Axle(s) Load (lbs)	46000.0
Expected Tag Axle(s) Load (lbs)	0.0
Expected GVW (lbs)	66000
Expected GCW (lbs)	80000.0
Engine (101).....	DETROIT DD15 GEN 5 HIGH POWER 14.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB-FT @ 975 RPM
Governed RPM	1900
HP at Governed RPM	315
RPM at Max HP	1625
Max HP	505
HP at Governed RPM (High Torque).....	315
RPM at Max HP (High Torque)	1625
Max HP (High Torque).....	505
Multi-torque.....	NO
Transmission (342).....	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Rear Axle (420)	MERITOR RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE WITH PUMP
Number of Speeds	1
Rear Axle Gear Ratio(s).....	4.56 REAR AXLE RATIO
Rear Tires (094)	MICHELIN XDS2 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile	496
Trailer Width (in)	102.0
Trailer Height (ground to top) (ft).....	13.5
Body Width (in)	96.0
Body Height (ground to top) (ft).....	9.0
Roof Mounted Aero Device (784).....	NO AIR SHIELD OR BRACKETS
Road Surface (AB5).....	MAINTAINED GRAVEL OR CRUSHED ROCK - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
Auxiliary Transmission (XMC 1) (352).....	NO AUXILIARY TRANSMISSION
High Gear Ratio	N/A
Low Gear Ratio	N/A
Transfer Case (373).....	NO TRANSFER CASE
High Gear Ratio	N/A
Low Gear Ratio	N/A

TABLE SUMMARY - SPEEDABILITY

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Top Gear Speedability	At Max Power Speed	At Desired Cruise Speed
Top Gear Vehicle Speed (mph)	64.3	65.0
Engine RPM	1625	1642
Gross Power Available (HP)	505	N/A
Power (HP) Required for:		
Level Road	342	348
0.3% Grade	386	393
1.0% Grade	489	497
*Blue background represents value input by user.		

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