



May 18, 2023

BCC Agenda Date/Item: _____

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

Approval of a Board Order authorizing purchase of a 2024 Freightliner 114SD Truck with Owen Equipment Hydro/Vactor Combination Upfit through an Oregon Cooperative Purchasing Agreement with Premier Truck Group of Portland. Total Contract Value is \$560,601. Funding is through Water Environment Services Sanitary Sewer Construction Funds. No General Country Funds are involved.

Previous Board Action/Review	Presented at Issues on May 16, 2023.		
Performance Clackamas	This purchase supports the County’s Strategic Priority of building a strong infrastructure to ensure long-term investments in infrastructure that will support the diverse needs of Clackamas County residents, including: a thriving economy, living wage jobs, housing and transportation alternatives, and a healthy environment.		
Counsel Review	Yes	Procurement Review	Yes
Contact Person	Matt House	Contact Phone	503-742-4601

EXECUTIVE SUMMARY: Water Environment Services (WES) is in need of a new vehicle for cleaning and maintaining stormwater and sanitary sewer infrastructure. This purchase will replace a 2005 cleaning truck that has been identified for replacement in WES’ Capital Improvement Plan, based on the organization’s fleet prioritization model that evaluates age, miles, usage, repair costs, service duty, condition, and reliability.

The new truck will be more reliable, has an operationally efficient design, updated technology, and current safety features. The 2005 truck that will be replaced has been identified for disposition by the WES fleet prioritization model which helps to determine the optimal time for fleet replacement. WES’ model takes into account variables such as: age, miles, usage hours, repair costs, service duty, and condition. The truck that will be replaced, has a total of \$180K in lifetime repair costs which has exceeded the expected repair costs over time. The \$180K cost does not take into account downtime and lost production incurred when the vehicle is in the maintenance shop for repairs and cannot be operated. The vehicle has become the last choice for operators, as they find it much less efficient, reliable and effective to operate as compared to newer comparable vehicles.

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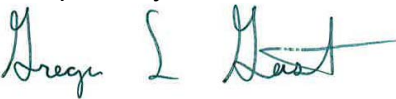
WES staff is responsible for cleaning and maintaining more than 360 miles of sanitary sewer pipelines, over 9000 catch basins, and hundreds of other flow control and water quality stormwater assets. Effective maintenance of these assets is crucial to properly functioning infrastructure, customer service delivery, achieving our Performance Clackamas strategic goals, and complying with our regulatory permits. The service area continues to grow and this translates to more infrastructure to maintain. Efficient and reliable equipment is fundamental to WES' ability to protect public health and support the vitality of our communities, natural environment, and economy.

PROCUREMENT PROCESS: Approval of the purchase is requested under the Local Contract Review Board Rule C-046-0400, Authority of Cooperative Procurements. The purchase will be made using cooperative contract #PA1640 from the State of Oregon Cooperative Purchasing Agreement Program from Premier Truck Group of Portland.

A notice of Intent to Purchase one (1) 2024 Freightliner 114SD Truck with Owen Equipment Hydro/Vactor Combination Upfit, was issued on February 23, 2023. No comments were received at the time of closing on March 2, 2023.

RECOMMENDATION: Staff recommends that the Board of County Commissioners of Clackamas County, acting as the governing body of Water Environment Services, approve the purchase and authorize Procurement to issue the purchase order for a 2024 Freightliner 114SD Truck with Owen Equipment Hydro/Vactor Combination Upfit, through the State of Oregon Cooperative Purchasing Agreement 1640, with Premier Truck Group of Portland.

Respectfully submitted,



Greg Geist
Director, WES

Attachments: Board Order, Exhibit A (Proposal)

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

In the Matter of Approving Issuance of
Purchase Order to Purchase One (1) 2024
Freightliner 114SD Trucks for Water
Environment Services



Board Order No. _____
Page 1 of 1

Whereas, the Clackamas County Board of County Commissioners, acting as the governing body of Water Environment Services (the "Board"), has authority to sign all contracts and any amendments or renewals of the same;

Whereas, Oregon Revised Statutes ("ORS") 279A.200-220 and Local Contract Review Board Rule C-046-0400 permit Water Environment Services to purchase goods or services using a cooperative procurement;

Whereas, the State of Oregon established a cooperative contract with PTG Oregon, LLC, dba Premier Truck Group, generally described as State of Oregon Cooperative Contract # PA1640 ("State Cooperative Contract");

Whereas, Water Environment Services desires to purchase one (1) 2024 Freightliner 114SD Truck with Owen Hydro/Vactor Combination Upfit installed (the "Vehicle") through the State Cooperative Contract, for a total contract price of **\$560,601.00**, as further detailed in the quote attached hereto as Exhibit A and incorporated by this reference herein;

Whereas, Water Environment Service requests authority to utilize the State Cooperative Contract to purchase the aforementioned vehicles by issuance of a purchase order ("PO");

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, order as follows:

1. The requested use of State of Oregon Cooperative Contract # PA1640 to purchase the Vehicle in the amount of \$560,601.00 is hereby approved; and
2. Water Environment Services staff are hereby delegated limited authority to issue a PO to purchase the Vehicle using the State of Oregon cooperative contract.

DATED this ____ day of _____, 2023

WATER ENVIRONMENT SERVICES

Chair

Recording Secretary

Prepared for:
Russ Weber
CLACKAMAS COUNTY
2051 Kaen
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Oreogn City, OR 97045
Phone: 503-742-4400

Exhibit A

Prepared by:
Dylan Dripps
PREMIER TRUCK GROUP OF
PORTLAND
9622 N.E. VANCOUVER WAY
PORTLAND, OR 97211
Phone: 503-283-0345

*A proposal for **CLACKAMAS COUNTY** through
DEPARTMENT OF ADMINISTRATIVE SERVICES PA1640*

Prepared by
PREMIER TRUCK GROUP OF PORTLAND
Dylan Dripps

Jan 09, 2023

2024 Freightliner 114SD for Vactor
Base 114SD DD13 Contract Price \$96,588.00
Options to Base \$43,341.00 Less 12% \$38,140.00
PTG additional Discount (-\$5,028.00)
Owen/Vactor Upfit \$420,611.00
Add Standard EW4 Warranty \$8,205.00
Add OR CAT Tax \$2,085.00
Package Price \$560,601.00



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



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Q U O T A T I O N

114SD PLUS CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK
 DETROIT DD13 GEN 5 12.8L 505 HP @ 1625 RPM, 1900
 GOV RPM, 1850 LB/FT @ 975 RPM
 ALLISON 4000 RDS AUTOMATIC TRANSMISSION WITH
 PTO PROVISION
 RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE
 HENDRICKSON RT463 @46,000# REAR SUSPENSION
 DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP
 SINGLE FRONT AXLE
 20,000# TAPERLEAF FRONT SUSPENSION

114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL
 CAB
 7025MM (277 INCH) WHEELBASE
 1/2X3.64X11-7/8 INCH STEEL FRAME
 (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI
 1800MM (71 INCH) REAR FRAME OVERHANG
 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME
 REINFORCEMENT

			PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	129,700	\$	129,700
EXTENDED WARRANTY		\$	8,205	\$	8,205
DEALER INSTALLED OPTIONS		\$	420,611	\$	420,611
CUSTOMER PRICE BEFORE TAX		\$	558,516	\$	558,516
TAXES AND FEES					
EST. OR CAT TAX		\$	2,085	\$	2,085
OTHER CHARGES		\$	0	\$	0
TRADE-IN					
TRADE-IN ALLOWANCE		\$	(0)	\$	(0)
BALANCE DUE	(LOCAL CURRENCY)	\$	560,601	\$	560,601

COMMENTS:

Projected delivery on ___ / ___ / ___ provided the order is received before ___ / ___ / ___.

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.



Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at Information@dtoffers.com.

Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at www.daimler-truckfinancial.com.



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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-27D	SD PRL-27D (EFF:MY24 ORDERS)		
Data Version			
DRL-024	SPECPRO21 DATA RELEASE VER 024		
Vehicle Configuration			
001-177	114SD PLUS CONVENTIONAL CHASSIS	7,934	6,476
004-224	2024 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK	480	-480
019-004	STRAIGHT TRUCK PROVISION, NON-TOWING		
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE 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		
995-1AE	FREIGHTLINER LEVEL II WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 66000.0 lbs		
Truck Service			
AA3-034	SEWER/INDUSTRIAL VACUUM BODY		
A89-99D	BRAKING-EXPECTED CAB TO BODY CLEARANCE : 15.0 in		
AF3-1DN	VACTOR		



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Data Code	Description	Weight Front	Weight Rear
Engine			
101-3C1	DETROIT DD13 GEN 5 12.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB/FT @ 975 RPM		
Electronic Parameters			
79A-070	70 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79F-013	FLEET MANAGEMENT - DAILY ENGINE USAGE ENABLED		
80L-001	ENABLE AUTO ENGINE RPM ELEVATE FOR EXTENDED IDLE		
80S-014	PTO 1, C/F PTO, NO SWITCH, TEM SUPPLIED REQUEST, FEEDBACK AND INTERLOCKS, WITH PTO CONNECTIONS, STATIONARY		
80T-015	PTO 2, C/F PTO, NO SWITCH, TEM SUPPLIED REQUEST, FEEDBACK AND INTERLOCKS, WITH PTO CONNECTIONS, ROLLING		
87W-020	PTO 2 MODE ENGINE RPM LIMIT - 1550 RPM		
Engine Equipment			
164-049	ENGINE CONTROLS FOR DDC ENGINES WITH CPC5 MCM2.1 ACM3 AND TCM		
99C-021	2010 EPA/CARB/GHG21 CONFIGURATION		
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
RNZ-001	OPTIONAL SELECTION OF CARB BASE WARRANTY/CERTIFICATION. DEALER CONFIRMS REGISTRATION IN OTHER THAN CALIFORNIA OR CARB OPT-IN STATES		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-1B5	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED		
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-236	(3) DTNA GENUINE, FLOODED STARTING, MIN 3000CCA, 555RC, THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		



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Data Code	Description	Weight Front	Weight Rear
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD 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		
107-046	BW MODEL FE-921 19.0 CFM SINGLE CYLINDER AIR COMPRESSOR WITH SAFETY VALVE		
152-040	ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE 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	30	25
28F-014	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER		
239-026	10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK		
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
273-058	AIR POWERED ON/OFF ENGINE FAN CLUTCH		
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED		
110-068	DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR		
118-001	FULL FLOW OIL FILTER		



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Data Code	Description	Weight Front	Weight Rear
266-107	1400 SQUARE INCH VOCATIONAL RADIATOR	-15	
103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-023	HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE		
138-005	PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER	4	
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
155-075	MITSUBISHI 12V MOD 3.175-DP60 STARTER WITH INTEGRATED MAGNETIC SWITCH		

Transmission

342-1M1	ALLISON 4000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	260	100
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Transmission Equipment

343-323	ALLISON VOCATIONAL PACKAGE 172 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS		
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-007	1700 RPM SECONDARY MODE SHIFT SPEED		
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		



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Data Code	Description	Weight Front	Weight Rear
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS		
84M-001	PUMP MODE INPUT ENABLED 3RD/4TH LOCKUP WIRED ON TCM INPUT AJ/BQ - ALLISON 5TH GEN TRANSMISSIONS		
353-076	QUICKFIT BODY LIGHTING CONNECTOR AT END OF FRAME, WITH BLUNTCUTS		
34C-011	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR		
362-824	(2) CUSTOMER INSTALLED CHELSEA 280 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		
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		
370-011	WATER TO OIL TRANSMISSION COOLER, FRAME MOUNTED		
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

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	
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10	
403-002	NON-ASBESTOS FRONT BRAKE LINING		
419-023	CONMET CAST IRON FRONT BRAKE DRUMS		
409-006	FRONT OIL SEALS		
408-017	SKF SCOTSEAL TF VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
406-001	STANDARD KING PIN BUSHINGS		
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130	
539-003	POWER STEERING PUMP		



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Data Code	Description	Weight Front	Weight Rear
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	200	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
420-111	RT-46-160P 46,000# R-SERIES TANDEM REAR AXLE		450
421-456	4.56 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-075	MXL 18T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-10	-10
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
452-005	DRIVER CONTROLLED TRACTION DIFFERENTIAL - REAR MOST TANDEM/TRIDEM REAR AXLE		20
878-021	(1) INTERAXLE LOCK VALVE AND (1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR-REAR AXLE VALVE		
87A-017	INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH, DISENGAGE INTERAXLE LOCK WITH IGNITION OFF		
87B-024	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH, ENGAGE AT SPEEDS 5 MPH OR LESS, DISENGAGE W/IGN OFF OR SPEEDS EXCEEDING 25 MPH		
423-033	MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-003	STANDARD BRAKE CHAMBER LOCATION		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		10
440-006	REAR OIL SEALS		
426-1B3	BENDIX EVERSURE LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS		



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Data Code	Description	Weight Front	Weight Rear
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE		
42T-001	STANDARD REAR AXLE BREATHER(S)		
Rear Suspension			
622-1CJ	HENDRICKSON RT463 @46,000# REAR SUSPENSION		750
621-015	HENDRICKSON RT/RTE - 6.00" SADDLE		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
624-009	54 INCH AXLE SPACING		10
628-005	STEEL BEAMS AND BRONZE CENTER BUSHINGS WITH BAR PIN ADJUSTABLE END CONNECTIONS		
623-005	FORE/AFT CONTROL RODS		
Brake System			
490-1AU	WABCO 4S/4M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF SWITCH		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-002	STD U.S. FRONT BRAKE VALVE		
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		
479-015	AIR DRYER FRAME MOUNTED		
460-001	STEEL AIR BRAKE RESERVOIRS		
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
485-045	METALLIC AIR MANIFOLD MOUNTED TO BACK OF CAB CROSSMEMBER WITH SIX 1/4 INCH FITTINGS	5	
Wheelbase & Frame			
545-702	7025MM (277 INCH) WHEELBASE		
546-1B2	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI	800	300
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	278	465



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Data Code	Description	Weight Front	Weight Rear
552-038	1800MM (71 INCH) REAR FRAME OVERHANG		
55W-007	FRAME OVERHANG RANGE: 71 INCH TO 80 INCH	-30	140
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	140	-20
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 211.02 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 196.02 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 417.08 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 96.16 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 110.22 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		

Chassis Equipment

556-1E5	14 INCH PAINTED STEEL BUMPER	20	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
44Z-002	EXTERIOR HARNESES WRAPPED IN ABRASION TAPE		
605-1AB	D15-16004-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON FRAME WEB		

Fuel Tanks

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)		
122-1K3	DAVCO 487 FUEL/WATER SEPARATOR WITH ESOC	15	



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Data Code	Description	Weight Front	Weight Rear
216-020	EQUIFLO INBOARD FUEL SYSTEM		
20E-004	AUXILIARY FUEL SUPPLY AND RETURN PORTS LOCATED ON LH FUEL TANK		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
221-008	FUEL COOLER MOUNTED LEFT HAND IN RAIL	10	
Tires			
093-0TB	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES	196	
094-1UY	MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES		120
Hubs			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
Wheels			
502-574	ACCURIDE 29807 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS	98	
505-657	ACCURIDE 51408 ACCU-LITE 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS		
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTING		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
667-004	FRONT FENDERS SET-BACK AXLE		
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10	
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT		
645-002	BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL		
646-042	STATIONARY BLACK GRILLE WITH BRIGHT ACCENTS		
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
690-016	CAB FLOOR, TOE BOARD AND FIREWALL HEAT SHIELD	5	



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Data Code	Description	Weight Front	Weight Rear
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK		
726-001	SINGLE ELECTRIC HORN		
728-001	SINGLE HORN SHIELD		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-067	HALOGEN COMPOSITE HEADLAMPS WITH BRIGHT BEZELS		
302-047	LED AERODYNAMIC MARKER LIGHTS		
311-001	DAYTIME RUNNING LIGHTS		
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
74A-001	RH DOWN VIEW MIRROR		
729-001	STANDARD SIDE/REAR REFLECTORS		
677-053	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH PLAIN SHIELDING		
768-043	63X14 INCH TINTED REAR WINDOW		
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS		
654-011	RH AND LH ELECTRIC POWERED WINDOWS	4	4
769-002	LOWER RH DOOR WINDOW WITH FRESNEL LENS	7	
663-013	1-PIECE SOLAR GREEN GLASS WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		

Cab Interior

055-019	RUGGED TRIM PACKAGE		
707-107	GRAY & CARBON VINYL INTERIOR "RUGGED"		
70K-020	CARBON WITH PREMIUM GUNMETAL ACCENT (RUGGED)		
706-013	MOLDED PLASTIC DOOR PANEL		
708-013	MOLDED PLASTIC DOOR PANEL		
772-006	BLACK MATS WITH SINGLE INSULATION		



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Data Code	Description	Weight Front	Weight Rear
785-035	(1) DUAL USB CHARGING OUTLET, (1) LIGHTER OUTLET AND ASH TRAY		
691-001	FORWARD ROOF MOUNTED CONSOLE		
696-012	CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20	
693-035	LH AND RH KICKPLATES		
738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-029	M2/SD DASH		
720-003	5 LB. FIRE EXTINGUISHER	10	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-008	STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-045	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY		
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-034	PREMIUM INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-1B3	STANDARD LED CAB LIGHTING		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
78G-005	KEY QUANTITY OF 5		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
756-339	PREMIUM ISRINGHAUSEN HIGH BACK AIR SUSPENSION DRIVERS SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	70	
760-339	PREMIUM ISRINGHAUSEN HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	60	20
759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8	
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-022	BLACK MORDURA CLOTH DRIVER SEAT COVER		
761-023	BLACK MORDURA CLOTH PASSENGER SEAT COVER		



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Data Code	Description	Weight Front	Weight Rear
763-101	BLACK SEAT BELTS		
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10	
540-070	4-SPOKE 18 INCH (450MM) LEATHER WRAPPED STEERING WHEEL WITH CHROME SWITCH BEZELS		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

81B-003	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY		
106-002	ELECTRONIC ACCELERATOR CONTROL		
732-998	NO INSTRUMENT PANEL-DRIVER		
734-022	FULLY CONFIGURABLE CENTER INSTRUMENT PANELS		
870-002	BRIGHT ARGENT FINISH GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-001	DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE		
198-003	DASH 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		
811-044	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
845-011	FUEL FILTER RESTRICTION INDICATOR		
148-073	ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE		
48H-003	QUICKFIT POWERTRAIN INTERFACE CONNECTOR UNDER CAB WITH CAPS		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
854-008	DIGITAL ENGINE OIL TEMPERATURE IN DRIVER DISPLAY		



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Data Code	Description	Weight Front	Weight Rear
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
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		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
679-024	LEFTHAND/CENTER/RIGHTHAND OVERHEAD INSTRUMENT PANEL BLANK		
746-137	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
748-002	POWER AND GROUND STUDS ON TOP OF DASH		
749-006	TOP OF DASH MOUNT CB RADIO PROVISION WITH PLATE AND STRAPS	2	
752-017	MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM		
74D-006	STANDARD RADIO WIRING WITH STEERING WHEEL CONTROLS		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
813-1C8	DETROIT CONNECT PLATFORM HARDWARE		
8D1-203	3 YEARS DETROIT CONNECT BASE PACKAGE (FEATURES VARY BY MODEL) DETROIT CONNECT PLATFORM		
6TS-008	(2) TMC RP1226 ACCESSORY CONNECTORS: (1) LOCATED BEHIND PASSENGER SIDE REMOVABLE DASH PANEL (1) CENTER OF OVERHEAD CONSOLE		
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
329-127	TWO EXTRA HARDWIRED SWITCHES IN DASH, ROUTE TO UNDER CAB, BLUNTCUT		
4C1-007	HARDWIRE SWITCH #1, ON/OFF/ON LATCHING, 20 AMPS IGNITION POWER		
4C2-007	HARDWIRE SWITCH #2, ON/OFF/ON LATCHING, 20 AMPS IGNITION POWER		



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Data Code	Description	Weight Front	Weight Rear
264-030	(1) OVERHEAD MOUNTED LANYARD CONTROL FOR DRIVER AIR HORN		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-030	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS		
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-020	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT		
298-046	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH 40 AMP (20 AMP PER SIDE) TRAILER LAMP CAPACITY		

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
 962-972 POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
 966-972 POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
 964-020 STANDARD BLACK BUMPER PAINT
 963-003 STANDARD E COAT/UNDERCOATING

Certification / Compliance

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

Secondary Factory Options

97F-002 ALLISON TRANS - SEM/LRTP REQ

Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

TOTAL VEHICLE SUMMARY



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Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	10975 lbs	8383 lbs	19358 lbs
<hr/>			
Total Weight ⁺	10975 lbs	8383 lbs	19358 lbs

Extended Warranty

WAG-074 TOWING: TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED
TOWING COVERAGE \$750 CAP FEX APPLIES

(+) Weights shown are estimates only.
If weight is critical, contact Customer Application Engineering.

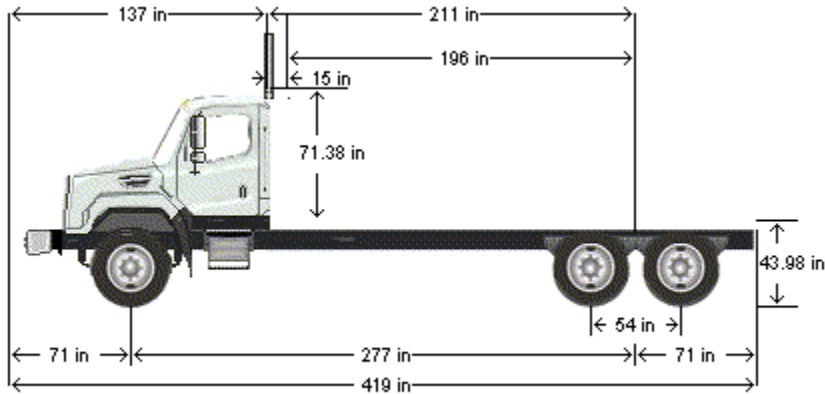
(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	114SD
Wheelbase (545)	7025MM (277 INCH) WHEELBASE
Rear Frame Overhang (552)	1800MM (71 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

TABLE SUMMARY - DIMENSIONS



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Dimensions	Inches
Bumper to Back of Cab (BBC)	136.8
Bumper to Centerline of Front Axle (BA)	71.3
Front Axle to Back of Cab (AC)	65.6
Min. Cab to Body Clearance (CB)	15.0
Back of Cab to Centerline of Rear Axle(s) (CA)	211.0
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	196.0
Back of Cab Protrusions (Exhaust/Intake) (CP)	15.8
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	15.0
Back of Cab to End of Frame	281.9
Cab Height (CH)	71.4
Wheelbase (WB)	276.6
Frame Overhang (OH)	70.9
Overall Frame Length	417.1
Overall Length (OAL)	418.8
Rear Axle Spacing	54.0
Unladen Frame Height at Centerline of Rear Axle	44.0

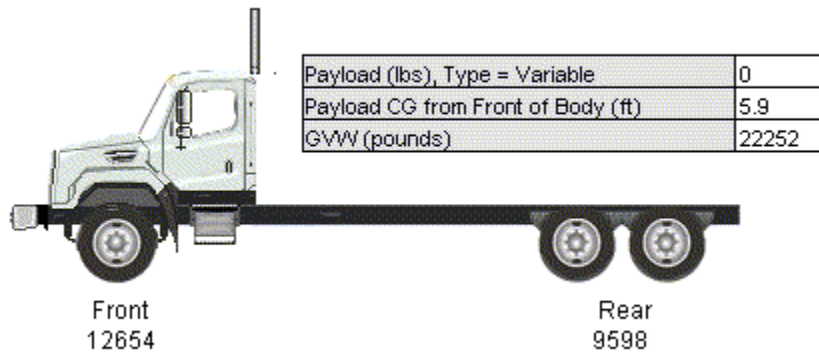
Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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TRUCK WEIGHT



VEHICLE SPECIFICATIONS SUMMARY - TRUCK WEIGHT

Model	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF 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)	0.0
Wheelbase (545)	7025MM (277 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).....	15.0
Front Axle to Body (in)	80.551
Truck Configuration (AA3)	SEWER/INDUSTRIAL VACUUM BODY
Body Length (ft)	11.8
Body Weight (lbs)	1700.0
Body Horiz CG from Body Front (ft)	5.5
Body Front to Rear Axle(s) CL (ft).....	16.34
Driver Weight (lbs).....	500.0
Driver Horizontal CG from Front Axle (in).....	15.771
Left-Hand Primary Fuel/Hydraulic Tank (204).....	80 GALLON/302 LITER ALUMINUM FUEL TANK - LH
Left Fuel Tank Horizontal CG (in).....	108.72
Right-Hand Primary Fuel/Hydraulic Tank (206).....	NO RH FUEL TANK



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Right Fuel Tank Horizontal CG (in)0

TABLE SUMMARY - TRUCK WEIGHT

Item	Front(s)	Rear(s)	Total
Chassis Tare	10975	8383	19358
Fuel / Oil	409	285	694
Driver	471	29	500
Dealer Installed Options	0	0	0
Accessories Total	0	0	0
Body Tare	799	901	1700
Truck Tare Weight	12654	9598	22252
Payload Total	0	0	0
Calculated Axle Loads	12654	9598	22252
Expected Axle Loads / GVW	20000	46000	66000
GAWR / GVWR	20000	46000	66000
Payload CG From Front of Body		5.9 feet	
Payload CG From Front Axle		12.6 feet	
Payload Distribution		Variable	
All weights displayed in pounds			

Item	Front(s)	Rear(s)	Total
Chassis Tare	10975	8383	19358
Fuel / Oil	409	285	694
Driver	471	29	500
Dealer Installed Options	0	0	0
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