

Prepared for:
RYAN MCNICHOLS
OUTAGAMIE COUNTY SOLID
WASTE
320 S WALNUT ST
APPLETON, WI 54911
Phone: 920-850-4916

Prepared by:
Jay Szymanski
TRUCK CTY OF WISCONSIN,
INC.
2401 PROGRESS WAY
KAUKAUNA, WI 541309559
Phone: 920-766-5222

A proposal for
OUTAGAMIE COUNTY SOLID WASTE

Prepared by
TRUCK CTY OF WISCONSIN, INC.
Jay Szymanski

Aug 19, 2024

Freightliner 114SD Plus



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
Price Level	
PRL-29D	SD PRL-29D (EFF:MY26 ORDERS)
Data Version	
DRL-005	SPECPRO21 DATA RELEASE VER 005
Vehicle Configuration	
001-177	114SD PLUS CONVENTIONAL CHASSIS
004-226	2026 MODEL YEAR SPECIFIED
002-004	SET BACK AXLE - TRUCK
019-004	STRAIGHT TRUCK PROVISION, NON-TOWING
003-001	LH PRIMARY STEERING LOCATION
General Service	
AA1-002	TRUCK CONFIGURATION
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)
99D-027	EPA EMISSIONS CERTIFICATION FOR REGISTRATION IN EPA OR ACT STATES - EPA CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD OF DRIVER DOOR)
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE
A84-1GM	GOVERNMENT BUSINESS SEGMENT
AA4-011	FIXED LOAD COMMODITY
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
AB1-008	MAXIMUM 8% EXPECTED GRADE
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - 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
A67-99D	EXPECTED PUSHER AXLE(S) LOAD : 0.0 lbs



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Data Code	Description
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 66000.0 lbs

Truck Service

AA3-010	ROLL OFF/ROLL ON BODY
AF3-142	MONROE TRUCK EQUIPMENT

Engine

101-3FG	DETROIT DD13 GEN 5 12.8L 410 HP @ 1625 RPM, 1900 GOV RPM, 1650 LB-FT @ 975 RPM
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Electronic Parameters

79A-072	72 MPH ROAD SPEED LIMIT
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT
79F-013	FLEET MANAGEMENT - DAILY ENGINE USAGE ENABLED
79G-011	15 MINUTES IDLE SHUTDOWN WITHOUT CLUTCH AND SERVICE BRAKE OVERRIDE
79K-014	PTO MODE ENGINE RPM LIMIT - 1800 RPM
79P-032	PTO RPM CONTROL WITH STEERING WHEEL SWITCHES
79S-007	PTO MODE CANCEL VEHICLE SPEED - 20 MPH
79T-001	PTO MODE RPM INCREMENT - 25 RPM
79U-001	PTO GOVERNOR RAMP RATE - 25 RPM PER SECOND
79W-008	ONE DASH PTO SPEED SWITCH, WITH ONE TEM PTO SPEED
79X-007	PTO SPEED 1 SETTING - 1000 RPM
80A-009	ALTERNATE ROAD SPEED LIMIT - 15 MPH WITH PTO ENGAGED
80G-001	PTO MINIMUM RPM - 600
80L-003	ENABLE DPF REGEN ZONE 1 WITH AUTO ENGINE RPM ELEVATE FOR EXTENDED IDLE
80S-003	PTO 1, DASH SWITCH, ENGAGE BEFORE DRIVING
80V-002	ENGINE MOUNT PTO, DASH SWITCH ENGAGES PTO MODE, DRIVING OPERATION

Engine Equipment

99C-024	EPA 2010/GHG 2024 CONFIGURATION
13E-001	STANDARD OIL PAN
105-001	ENGINE MOUNTED OIL CHECK AND FILL



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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
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN
289-001	NON-POLISHED BATTERY BOX COVER
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
152-041	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-014	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER
239-038	11 FOOT 06 INCH (138 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
23Z-002	NON-POLISHED ALUMINUM DIAMOND PLATE DIESEL EXHAUST FLUID TANK COVER
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD(S)



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273-058	AIR POWERED ON/OFF ENGINE FAN CLUTCH
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, 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
120-998	NO COOLANT 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
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
140-038	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR WITH CURRENT SENSOR LIGHT
155-076	DELCO 12V MOD 3.175-39MT+ STARTER WITH ENGINE ECU SOFTWARE PROTECTION AND INTEGRATED MAGNETIC SWITCH

Transmission

342-1M3	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
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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



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	Data Code	Description
	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
	84K-002	2ND GEAR ENGINE BRAKE ALTERNATE PRESELECT WITH MODERATE DOWNSHIFT STRATEGY
N	84N-011	NEUTRAL AT STOP ENABLED
	84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES
	84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS
	85T-998	NO AMT HOLD MODE
	353-074	QUICKFIT BODY LIGHTING CONNECTOR UNDER CAB, WITH BLUNTCUTS
	362-818	CUSTOMER INSTALLED CHELSEA 870 SERIES PTO
	363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON
	341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN
	345-078	HEAVY DUTY ELECTRONIC TRANSMISSION SHIFT CONTROL, COLUMN 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
402-013	MERITOR 16.5X6 Q+ CAST SPIDER HEAVY DUTY CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
403-002	NON-ASBESTOS FRONT BRAKE LINING
419-001	CAST IRON OUTBOARD FRONT BRAKE DRUMS
427-001	FRONT BRAKE DUST SHIELDS
409-006	FRONT OIL SEALS



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Data Code	Description
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES
405-031	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS WITH STAINLESS STEEL CLEVIS PINS
406-001	STANDARD KING PIN BUSHINGS
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
539-003	POWER STEERING PUMP
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
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION
410-001	FRONT SHOCK ABSORBERS

Rear Axle and Equipment

420-103	CUMMINS-MERITOR RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
421-430	4.30 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
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES
452-006	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES
878-022	(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AXLE VALVE AND (1) REAR-REAR AXLE VALVE
87A-017	INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH, DISENGAGE INTERAXLE LOCK WITH IGNITION OFF
87B-027	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH, ENGAGE AT SPEEDS 25 MPH OR LESS, DISENGAGE W/IGN OFF



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423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
433-002	NON-ASBESTOS REAR BRAKE LINING
434-019	ASPHALT SPREADER CLEARANCE REAR BRAKE GEOMETRY
451-023	CONMET CAST IRON REAR BRAKE DRUMS
425-002	REAR BRAKE DUST SHIELDS
440-006	REAR OIL SEALS
426-101	WABCO TRISTOP D LONGSTROKE 2-DRIVE AXLE SPRING PARKING CHAMBERS
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE
42T-001	STANDARD REAR AXLE BREATHER(S)

Rear Suspension

622-298	TUFTRAC GEN2 46,000# REAR SPRING SUSPENSION
621-108	9.5 INCH NOMINAL RIDE HEIGHT (460MM GLOBAL REFERENCE HEIGHT)
431-003	AXLE CLAMPING GROUP
624-025	55 INCH AXLE SPACING
623-006	FORE/AFT AND TRANSVERSE CONTROL RODS
439-002	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)

Pusher / Tag Equipment

429-998	NO PUSHER/TAG BRAKE DUST SHIELDS
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Brake System

490-100	WABCO 4S/4M ABS
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
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER
* 479-006	AIR DRYER MOUNTED OUTBOARD ON RH RAIL

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Data Code	Description
	AS CLOSE TO CAB AS POSSIBLE.
460-001	STEEL AIR BRAKE RESERVOIRS
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)

Trailer Connections

481-998	NO TRAILER AIR HOSE
476-998	NO AIR HOSE HANGER
310-998	NO TRAILER ELECTRICAL CABLE

Wheelbase & Frame

545-662	6625MM (261 INCH) WHEELBASE
546-1B2	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
548-803	TEM TO EVALUATE AND INSTALL FRAME RAIL REINFORCEMENT AS NEEDED FOR FRONT FRAME MOUNTED EQUIPMENT
552-054	2275MM (90 INCH) REAR FRAME OVERHANG
55W-008	FRAME OVERHANG RANGE: 81 INCH TO 90 INCH
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 195.28 in
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 192.28 in
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 380.54 in
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 107.12 in
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 126.9 in
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 0.0 in
553-001	SQUARE END OF FRAME
587-003	REAR TOW HOOKS
550-001	FRONT CLOSING CROSSMEMBER
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)
572-001	STANDARD REAR MOST CROSSMEMBER
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER

Chassis Equipment

556-1E5	14 INCH PAINTED STEEL BUMPER
558-070	REMOVABLE FRONT TOW/RECOVERY DEVICE, STORED ON CHASSIS FRAME

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Data Code	Description
585-998	NO MUDFLAP BRACKETS
590-998	NO REAR MUDFLAPS
551-002	HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS
44Z-002	EXTERIOR HARNESSSES WRAPPED IN ABRASION TAPE
607-026	CLEAR FRAME RAILS (EXCEPT AIR DRYER) OUTBOARD BOTH RAILS BACK OF CAB TO REAR SUSPENSION
Fifth Wheel	
578-998	NO FIFTH WHEEL
Fuel Tanks	
204-154	80 GALLON/302 LITER ALUMINUM FUEL TANK - LH
218-006	25 INCH DIAMETER FUEL TANK(S)
215-007	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH POLISHED STAINLESS STEEL BANDS
212-007	FUEL TANK(S) FORWARD
664-001	PLAIN STEP FINISH
205-002	CHROME FUEL TANK CAP(S)
122-1K7	DAVCO 487 FUEL/WATER SEPARATOR WITH ESOC AND 12 VOLT PREHEATER AND BLACK BAND
216-020	EQUIFLO INBOARD FUEL SYSTEM
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE
Tires	
093-16E	MICHELIN XZE 425/65R22.5 20 PLY RADIAL FRONT TIRES
094-12V	CONTINENTAL HDR2+ 11R22.5 16 PLY RADIAL REAR TIRES
Hubs	
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Wheels	
502-566	MAXION WHEELS 10035 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS



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Data Code	Description
505-752	MAXION WHEELS 91541 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
667-037	SHORT FENDER WITH MUDFLAP
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT
646-041	STATIONARY BLACK GRILLE
65X-004	BLACK HOOD MOUNTED AIR INTAKE GRILLE
644-004	FIBERGLASS HOOD
690-017	HOOD LINER, ADDED FIREWALL AND FLOOR HEAT INSULATION
727-1AJ	DUAL 14 INCH ROUND POLISHED AIR HORNS
726-002	DUAL ELECTRIC HORNS
728-002	DUAL HORN SHIELDS
575-001	REAR LICENSE PLATE MOUNT END OF FRAME
327-012	SWITCH, INDICATOR LIGHT AND WIRING FOR (2) CUSTOMER FURNISHED BEACONS
312-068	HALOGEN COMPOSITE HEADLAMPS WITH BLACK 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



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74B-1B4	RH AND LH 8 INCH HEATED STAINLESS STEEL FENDER MOUNTED CONVEX MIRRORS WITH TRIPOD BRACKETS
729-001	STANDARD SIDE/REAR REFLECTORS
677-054	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH PLAIN DIAMOND PLATE COVER
768-043	63X14 INCH TINTED REAR WINDOW
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS
654-011	RH AND LH ELECTRIC POWERED WINDOWS
769-002	LOWER RH DOOR WINDOW WITH FRESNEL LENS
663-029	1-PIECE BONDED HEATED WIPER PARK SOLAR GREEN GLASS WINDSHIELD
659-007	8 LITER (2 GAL) WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR
647-001	WHITE WINTERFRONT

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
785-034	ASH CUP AND (1)LIGHTER, (1)12V POWER OUTLET, (1)DASH MTD DUAL USB-C OUTLET
691-001	FORWARD ROOF MOUNTED CONSOLE
696-012	CENTER STORAGE CONSOLE MOUNTED ON BACKWALL
693-036	LH DOOR STORAGE POCKET
738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY
742-007	(2) CUP HOLDERS LH AND RH DASH
680-029	M2/SD DASH
720-002	2-1/2 LB. FIRE EXTINGUISHER
700-002	HEATER, DEFROSTER AND AIR CONDITIONER
701-013	STANDARD HVAC DUCTING WITH PRE-FILTER FOR OUTSIDE AIR INTAKE
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH



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Data Code	Description
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
324-1B2	PREMIUM LED CAB LIGHTING
787-998	NO SECURITY DEVICE
657-1A1	ALL UNIT(S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER FT1014
78G-003	KEY QUANTITY OF 3
655-005	LH AND RH ELECTRIC DOOR LOCKS
740-998	NO MATTRESS
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES
756-339	PREMIUM ISRINGHAUSEN HIGH BACK AIR SUSPENSION DRIVERS SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK
760-335	BASIC ISRI HIGH BACK NON SUSPENSION PASSENGER SEAT
759-007	DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS
758-143	RUGGED CLOTH BLACK WITH GRAY DRIVER SEAT
761-143	RUGGED CLOTH BLACK WITH GRAY PASSENGER SEAT
763-102	HIGH VISIBILITY ORANGE SEAT BELTS
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN
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

106-002	ELECTRONIC ACCELERATOR CONTROL
732-998	NO INSTRUMENT PANEL-DRIVER



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Data Code	Description
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
198-035	ELECTRONIC AIR RESTRICTION INDICATOR DISPLAYED IN DRIVER DISPLAY
721-006	CONSTANT 107 DECIBELS BACKUP ALARM
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
81B-003	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER 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
148-085	EMISSIONS LIMITED IDLE ADJUST
48C-002	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) BETWEEN SEATS WITH BLUNTCUTS
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE
854-008	DIGITAL ENGINE OIL TEMPERATURE IN DRIVER DISPLAY
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE
864-022	DIGITAL TRANSMISSION OIL TEMPERATURE IN DRIVER DISPLAY
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
72J-998	NO DR ASSIST SYSTEM



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Data Code	Description
49B-998	NO VEHICLE STABILITY ADVISOR OR CONTROL
73B-998	NO LANE DEPARTURE WARNING SYSTEM
72K-998	NO REVERSE PROXIMITY SENSOR
679-023	CENTER OVERHEAD INSTRUMENT PANEL BLANK
35M-014	1 QUICKFIT PROGRAMABLE MODULE (QPM/XMC), WITHOUT POWERTRAIN CONTROL FUNCTIONS
746-143	7" B-PANEL INTERACTIVE TOUCHSCREEN DISPLAY W/ USB-C, APPLE CARPLAY, ANDROID AUTO, BLUETOOTH/AM/FM/SXM/WB, MICROPHONE
747-001	DASH MOUNTED RADIO
750-002	(2) RADIO SPEAKERS IN CAB
753-998	NO AM/FM RADIO ANTENNA
748-002	POWER AND GROUND STUDS ON TOP OF DASH
749-006	TOP OF DASH MOUNT CB RADIO PROVISION WITH PLATE AND STRAPS
752-017	MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM
75W-998	NO MULTIBAND ANTENNA
78C-004	INTEROPERABLE SDAR ANTENNA, SHIP LOOSE
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
8D1-213	3 YEARS DETROIT CONNECT BASE PACKAGE(FEATURES VARY BY MODEL) DETROIT CONNECT PLATFORM
6TS-005	TMC RP1226 ACCESSORY CONNECTOR LOCATED BEHIND PASSENGER SIDE REMOVEABLE DASH PANEL
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP
329-117	FOUR EXTRA HARDWIRED SWITCHES IN DASH, ROUTE TO BETWEEN SEATS, CAPPED
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



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Data Code	Description
4C4-018	HARDWIRE SWITCH #4, ON/OFF LATCHING, 20 AMPS BATTERY POWER
81Y-006	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS AND SERVICE BRAKES
264-030	(1) OVERHEAD MOUNTED LANYARD CONTROL FOR DRIVER AIR HORN
883-998	NO TRAILER HAND CONTROL BRAKE VALVE
842-006	DIGITAL TURBO AIR PRESSURE IN DRIVER DISPLAY
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY
660-001	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES
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
87T-998	NO WRG/SW-OPTL #2, CHAS, AIR

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

998-001 CORPORATE PDI CENTER IN-SERVICE ONLY



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Data Code	Description
999-063	DEALER ADVISED/ACCEPTS ESC ON END OF FRAME TOWING FOR TRACTOR FOR YARD HAUL USE

Extended Warranty

WAI-4XG	EW4: DD13 VOC \$0 DED 7 YEARS/150,000 MILES/241,500 KM FEX APPLIES
WAK-140	ALLISON 4500 RDS SERIES TRANSMISSION EXTENDED WARRANTY, 5 YEARS/UNLIMITED MILES FEX
WAG-042	TOWING: 5 YEARS/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$1200 CAP FEX APPLIES

Dealer Installed Options

		Weight Front	Weight Rear
1	ONE SET OF FILTERS	0	0
Total Dealer Installed Options		0 lbs	0 lbs

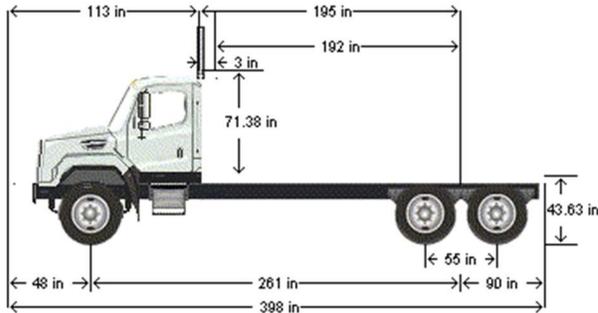
(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model 114SD
 Wheelbase (545) 6625MM (261 INCH) WHEELBASE
 Rear Frame Overhang (552) 2275MM (90 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)	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)	195.3
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	192.3
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	284.9
Cab Height (CH)	71.4
Wheelbase (WB)	260.8
Frame Overhang (OH)	89.6
Overall Frame Length	380.5
Overall Length (OAL)	398.3
Rear Axle Spacing	55.0
Unladen Frame Height at Centerline of Rear Axle	43.6

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



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G V W R

VEHICLE SPECIFICATIONS SUMMARY - GVWR

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
 Front Axle (400)..... DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
 Front Suspension (620)..... 20,000# TAPERLEAF FRONT SUSPENSION
 Front Hubs (418)..... CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
 Front Disc Wheels (502)MAXION WHEELS 10035 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS
 Front Tires (093)..... MICHELIN XZE 425/65R22.5 20 PLY RADIAL FRONT TIRES
 Front Brakes (402)MERITOR 16.5X6 Q+ CAST SPIDER HEAVY DUTY CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
 Steering Gear (536)..... TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
 Rear Axle (420)..... CUMMINS-MERITOR RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
 Rear Suspension (622)..... TUFTRAC GEN2 46,000# REAR SPRING SUSPENSION
 Rear Hubs (450)..... CONMET PRESET PLUS PREMIUM IRON REAR HUBS
 Rear Disc Wheels (505)..... MAXION WHEELS 91541 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS
 Rear Tires (094)..... CONTINENTAL HDR2+ 11R22.5 16 PLY RADIAL REAR TIRES
 Rear Brakes (423)..... MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
 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

TABLE SUMMARY - GVWR



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	Front	Rear 1	Rear 2
Axle Component Weight Ratings			
Axles	20000	23000	23000
Suspension	20000	23000	23000
Hubs	23000	26000	26000
Brakes	20000	23000	23000
Wheels	22800	29600	29600
Tires	22800	24020	24020
Power Steering	22000	N/A	N/A
GAWR (per axle)	20000	23000	23000
GAWR (per axle system)	20000		46000
Expected Load (per axle system)	20000		46000
GVWR due to Frame	90000		
GVWR due to Transmission	300000		
Vehicle GVWR Summary			
Calculated GVWR	66000		
Expected GVWR	66000		
All weights displayed in pounds			

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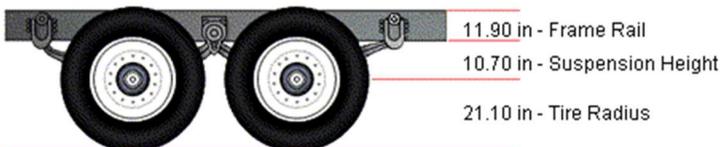


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UNLADEN FRAME HEIGHT

Unladen Height	Requested	Calculated
Tow Hitch (in)	0.00 to 0.00	32.20
Frame (in)	N/A	43.60



VEHICLE SPECIFICATIONS SUMMARY - UNLADEN FRAME HEIGHT

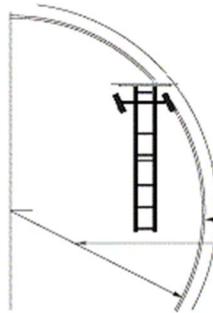
Model	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Frame Rails (546).....	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI(546)
Web Height (in).....	11.875
Flange Thickness (in).....	0.4375
Rear Suspension (622).....	TUFTRAC GEN2 46,000# REAR SPRING SUSPENSION
Rear Suspension Ride Height (621).....	9.5 INCH NOMINAL RIDE HEIGHT (460MM GLOBAL REFERENCE HEIGHT)
Axle C/L to Bottom of Frame (in).....	10.654
Rear Tires (094)	CONTINENTAL HDR2+ 11R22.5 16 PLY RADIAL REAR TIRES
Unladen Radius (in).....	21.1
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).....	REAR TOW HOOKS
Tow Device Height(588)	NO REAR TOW DEVICE HEIGHT
Requested Min Height (in)	0.0
Requested Max Height (in)	0.0

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

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TURNING RADIUS



Turning radius graphic and data provided strictly for comparisons between model configurations. Weather, road surfaces, and tire treads affect the results. It is strongly suggested that actual vehicles be measured before constructing any roads/driveways using this information. For specific figures regarding your configuration, please contact your CAE representative.

	Dimensions	Tolerance
Wall to Wall Diameter (ft)	84.3	+/- 3.0
Curb to Curb Diameter (ft)	82.2	+/- 3.0
Turning Radius (ft)	40.4	+/- 1.5

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model 114SD
 Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Wheelbase (545)6625MM (261 INCH) WHEELBASE
 Front Tires (093).....MICHELIN XZE 425/65R22.5 20 PLY RADIAL FRONT TIRES
 Width (in) 16.6
 Front Axle (400)..... DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
 Kingpin Intersection (in) 71
 Bumper (556) 14 INCH PAINTED STEEL BUMPER
 Width (in) 97.6
 Bumper Miter to Front Axle (in) 28.58
 Primary Steering Location (003) LH PRIMARY STEERING LOCATION
 Steering Gear (536) TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
 Dual Steering Gear RCH45
 Ram NONE
 Rear Axle (420) CUMMINS-MERITOR RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
 Axle Spacing (624)55 INCH AXLE SPACING

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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545)6625MM (261 INCH) WHEELBASE
 Frame Rails (546)..... 1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI(546)
 Yield Strength (psi) 120000
 Section Modulus (per rail) (cu in) 26.26
 RBM (per rail) (lbf-in) 3204000
 Inner Frame Reinforcement (547)..... 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
 Outer Frame Reinforcement (548)..... TEM TO EVALUATE AND INSTALL FRAME RAIL REINFORCEMENT AS NEEDED FOR FRONT FRAME MOUNTED EQUIPMENT

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	6625MM (261 INCH) WHEELBASE
Frame	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI
Inner Frame Reinforcement	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	TEM TO EVALUATE AND INSTALL FRAME RAIL REINFORCEMENT AS NEEDED FOR FRONT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	36.74
Frame RBM - per rail (lbf-in)	4409800

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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 410 HP @ 1625 RPM, 1900
GOV RPM, 1650 LB-FT @ 975 RPM
ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH
PTO PROVISION
CUMMINS-MERITOR RT-46-160 46,000# R-SERIES
TANDEM REAR AXLE
TUFTRAC GEN2 46,000# REAR SPRING 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
6625MM (261 INCH) WHEELBASE
NO FIFTH WHEEL
1/2X3.64X11-7/8 INCH STEEL FRAME
(12.7MMX301.6MM/0.5X11.88 INCH) 120KSI
2275MM (90 INCH) REAR FRAME OVERHANG
1/4 INCH (6.35MM) C-CHANNEL INNER FRAME
REINFORCEMENT
TEM TO EVALUATE AND INSTALL FRAME RAIL
REINFORCEMENT AS NEEDED FOR FRONT
FRAME MOUNTED EQUIPMENT

