



Oklahoma City

OKC Airport Trust

February 28, 2024

2025 Freightliner ~ 114SD Tandem

See attached specs dated: February 28, 2024
Chassis builds 2nd Quarter ~ July – August 2024

Chassis Price \$ 144,764.00

Includes extended warranty listed below.

Extended Warranty

CUM L9: HD1 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM EXTENDED WARRANTY

CUM L9: AT3 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM AFTERTREATMENT.

ALLISON 4500 RDS SERIES TRANSMISSION EXTENDED WARRANTY, 5 YEARS/UNLIMITED MILES
TOWING: 5 YEARS/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$750 CAP

Smart Manufacturing Inc. Price \$ 166,965.00

Smart Manufacturing once they receive chassis; approx. 60-90 days to build.

Total Price \$ 311,729.00

Thank you for allowing Premier Truck Group Oklahoma City the opportunity to give you a price quote. If you have any questions or concerns regarding this proposal, please feel free to give me a call.

Respectfully submitted,


Jane Kirton

Account Manager
Premier Truck Group of Oklahoma City
405.945.3577
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**PREMIER TRUCK GROUP OF OKLAHOMA CITY / 5301 I-40 West / P O BOX 272430 Oklahoma City,
OK 73128 / 800.999.6511 / 405.942.2159**

February 9, 2024



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Hello Jane

Here is a Quote for a Runway De-icer model 3000-50
3000-gallon Stainless steel tank
4 x 3 Hydraulic drive pumping system
50-foot Hydraulic fold booms
Variable orifice nozzles
Roadmaster control system
Training included in the cost
Shipping is included in the cost

\$231,896.00 – 28% discount \$166965.00, Delivered to Will Rogers Airport.

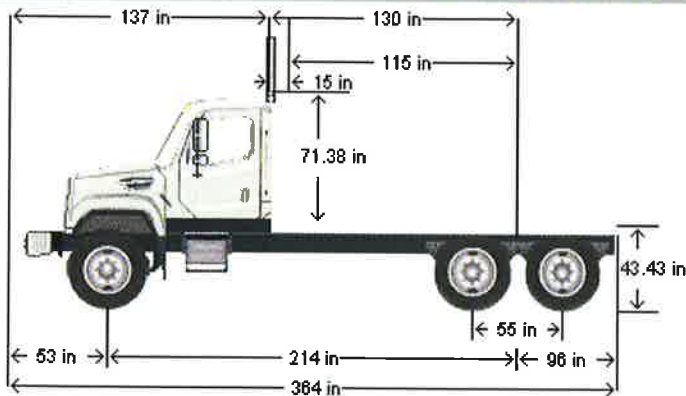
Thank You

Dale Thompson
Smart Manufacturing Inc.
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DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model..... 114SD
Wheelbase (545)..... 5425MM (214 INCH) WHEELBASE
Rear Frame Overhang (552)..... 2450MM (96 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

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TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	137.0
Bumper to Centerline of Front Axle (BA)	53.5
Front Axle to Back of Cab (AC)	83.5
Min. Cab to Body Clearance (CB)	15.0
Back of Cab to Centerline of Rear Axle(s) (CA)	130.1
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	115.1
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)	15.0
Back of Cab to End of Frame	226.6
Cab Height (CH)	71.4
Wheelbase (WB)	213.6
Frame Overhang (OH)	96.5
Overall Frame Length	361.8
Overall Length (OAL)	363.6
Rear Axle Spacing	55.0
Unladen Frame Height at Centerline of Rear Axle	43.4

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

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SPECIFICATION PROPOSAL

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-28D	SD PRL-28D (EFF:MY25 ORDERS)		
Data Version			
DRL-031	SPECPRO21 DATA RELEASE VER 031		
Vehicle Configuration			
001-177	114SD PLUS CONVENTIONAL CHASSIS	7,934	6,476
004-225	2025 MODEL YEAR SPECIFIED		
002-003	SET FORWARD 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 OUTSIDE CARB STATES - EPA CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD OF DRIVER DOOR)		
AF2-998	NONE		
A85-011	CONSTRUCTION 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		
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY		



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	Data Code	Description	Weight Front	Weight Rear
	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		
N	A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 0.0 lbs		

Truck Service

	AA3-006	UTILITY BODY
	A89-99D	BRAKING-EXPECTED CAB TO BODY CLEARANCE : 15.0 in
*	AF3-462	SMART MANUFACTURING

Engine

	101-3BV	CUM L9 380 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-FT @ 1200 RPM	-850	-70
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Electronic Parameters

	79A-070	70 MPH ROAD SPEED LIMIT
	79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT
	79K-005	PTO MODE ENGINE RPM LIMIT - 900 RPM
	79U-001	PTO GOVERNOR RAMP RATE - 25 RPM PER SECOND
	79W-025	CRUISE CONTROL BUTTON PTO CONTROL AND ONE REMOTE PTO SPEED
	79X-004	PTO SPEED 1 SETTING - 850 RPM
	80G-014	PTO MINIMUM RPM - 650
	80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH
	80S-001	PTO 1, DASH SWITCH, STATIONARY OPERATION
	80V-004	ENGINE MOUNT PTO, TEM SUPPLIED REQUEST

Engine Equipment

	99C-024	EPA 2010/GHG 2024 CONFIGURATION	
	13E-001	STANDARD OIL PAN	
	105-001	ENGINE MOUNTED OIL CHECK AND FILL	
	014-109	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER WITH SAFETY ELEMENT, PASSIVE PRECLEANER AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10
	124-1DJ	DR 12V 160 AMP 36-SI BRUSHLESS QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE	10

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Data Code	Description	Weight Front	Weight Rear
292-235	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES	-50	-10
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		
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		
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-076	CUMMINS ENGINE INTEGRAL BRAKE WITH VARIABLE GEOMETRY TURBO ON/OFF	20	
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
28F-015	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER AND DASH MOUNTED INHIBIT SWITCH		
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		
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/TAILOPIPE SHIELD(S)		
273-058	AIR POWERED ON/OFF ENGINE FAN CLUTCH		



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Data Code	Description	Weight Front	Weight Rear
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
266-017	1300 SQUARE INCH ALUMINUM RADIATOR	-50	
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-007	GATES POWERGRIP SHRINK BAND HOSE CLAMPS WHERE POSSIBLE		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD	6	
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20	
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-35	

Transmission

342-1M3	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	260	100
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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-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

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84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84K-002	2ND GEAR ENGINE BRAKE ALTERNATE PRESELECT WITH MODERATE DOWNSHIFT STRATEGY		
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - 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		
362-656	CUSTOMER INSTALLED MUNCIE A20 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		
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-15	
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		
419-001	CAST IRON OUTBOARD FRONT BRAKE DRUMS		
427-001	FRONT BRAKE DUST SHIELDS	5	



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Data Code	Description	Weight Front	Weight Rear
409-006	FRONT OIL SEALS		
408-001	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		
534-003	4 QUART POWER STEERING RESERVOIR		
533-001	OIL/AIR POWER STEERING COOLER		
40T-001	MINERAL SAE 80/90 FRONT AXLE LUBE		
Front Suspension			
620-006	20,000# FLAT LEAF FRONT SUSPENSION	310	
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
410-998	NO FRONT SHOCK ABSORBERS	-30	
Rear Axle and Equipment			
420-103	CUMMINS-MERITOR RT-46-160 46,000# R- SERIES TANDEM REAR AXLE		420
421-489	4.89 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		
452-006	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30
878-022	(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD- REAR AXLE VALVE AND (1) REAR-REAR AXLE VALVE		
87A-005	INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH		
87B-008	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH		
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		

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434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)		
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		
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		490
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		
439-001	REAR SHOCK ABSORBERS - ONE AXLE		
Pusher / Tag Equipment			
429-998	NO PUSHER/TAG BRAKE DUST SHIELDS		
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		
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20	
* 483-003	BENDIX OIL COALESCING FILTER FOR AIR DRYER		
479-005	AIR DRYER MOUNTED INBOARD ON RH RAIL		
460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL		

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Data Code	Description	Weight Front	Weight Rear
477-008	BW DV-2 AUTO DRAIN VALVE WITH HEATER - WET TANK, PETCOCKS ALL OTHERS		
485-003	QUICK DISCONNECT FITTING WITH TIRE INFLATION KIT	2	

Trailer Connections

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

Wheelbase & Frame

545-542	5425MM (214 INCH) WHEELBASE		
546-1B2	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI	480	190
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	170	400
548-803	TEM TO EVALUATE AND INSTALL FRAME RAIL REINFORCEMENT AS NEEDED FOR FRONT FRAME MOUNTED EQUIPMENT		
552-007	2450MM (96 INCH) REAR FRAME OVERHANG		
55W-009	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-80	310
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	140	-20
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 130.12 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 115.12 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 361.78 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 82.6 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 75.72 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
562-004	SNOWPLOW STEEL C-CHANNEL BACK OF CAB MIDSHIP #1 CROSSMEMBER	80	40
572-001	STANDARD REARMOST CROSSMEMBER		
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER		30

Chassis Equipment

556-1AG	16.5 INCH PAINTED STEEL STRAIGHT BUMPER		
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
585-998	NO MUDFLAP BRACKETS		

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590-998	NO REAR MUDFLAPS		
551-002	HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS		
44Z-005	EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE, SECONDARY COVERING, & CONNECTOR PROTECTION		
607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD		
Fifth Wheel			
578-998	NO FIFTH WHEEL		
Fuel Tanks			
204-151	60 GALLON/227 LITER ALUMINUM FUEL TANK - LH		
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)		
122-1H3	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR	10	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-2CC	MICHELIN XZU-S2 315/80R22.5 20 PLY RADIAL FRONT TIRES	100	
094-2A7	MICHELIN XDS2 11R22.5 16 PLY RADIAL REAR TIRES		192
Hubs			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
Wheels			
502-579	MAXION WHEELS 10041 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	66	
505-545	MAXION WHEELS 90260 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		160

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Data Code	Description	Weight Front	Weight Rear
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		
667-001	FRONT FENDERS		
754-002	3-1/2 INCH FENDER EXTENSIONS	15	
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		
690-017	HOOD LINER, ADDED FIREWALL AND FLOOR HEAT INSULATION	5	
727-066	DUAL 26 INCH RECTANGULAR POLISHED ALUMINUM AIR HORNS ROOF MOUNTED	4	
726-002	DUAL ELECTRIC HORNS		
728-002	DUAL HORN SHIELDS		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-067	HALOGEN COMPOSITE HEADLAMPS WITH BRIGHT BEZELS		
302-047	LED AERODYNAMIC MARKER LIGHTS		
314-823	WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH SINGLE CONNECTION AT LH FORWARD		
311-020	HEADLIGHTS ON WITH WIPERS, WITH DAYTIME RUNNING LIGHTS WITH ROCKER/TOGGLE MOMENTARY INTERRUPTER SWITCH		
294-042	FREIGHTLINER LED FLANGE MOUNTED STOP/TAIL/TURN LIGHTS WITH SEPARATE INCANDESCENT BACKUP LIGHTS		5
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-103	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LED LIGHTS AND LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		

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Data Code	Description	Weight Front	Weight Rear
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
729-001	STANDARD SIDE/REAR REFLECTORS		
677-053	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH PLAIN SHIELDING		
275-061	PARK BRAKE REMINDER WARNING SYSTEM		
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		
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	2	
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		
693-019	LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS		
738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-029	M2/SD DASH		
720-004	10 LB. FIRE EXTINGUISHER WITH MOUNTING BRACKET	20	
714-001	FIRST AID KIT	2	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		

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Data Code	Description	Weight Front	Weight Rear
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		
787-004	REMOTE KEYLESS ENTRY AND 2 TRANSMITTERS		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
78G-004	KEY QUANTITY OF 4		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
756-338	BASIC ISRINGHAUSEN HIGH BACK AIR SUSPENSION DRIVERS SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-338	BASIC ISRINGHAUSEN HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10
759-006	DUAL DRIVER SEAT ARMRESTS AND INBOARD PASSENGER SEAT ARMREST	6	
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-1AK	BLACK VINYL DRIVER SEAT COVER		
761-1AK	BLACK VINYL PASSENGER SEAT COVER		
763-104	HIGH VISIBILITY ORANGE SEAT BELTS WITH DRIVER INDICATOR LIGHT AND AUDIBLE ALARM		
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
734-022	FULLY CONFIGURABLE CENTER INSTRUMENT PANELS

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	Data Code	Description	Weight Front	Weight Rear
N	68J-002	(2) SWITCH CUTOUTS AND BLANKS IN CENTER PANEL		
	87L-001	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK		
	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		
	198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT 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		
	81B-004	PANEL LAMP DIMMER SWITCH IN SWITCH PANEL		
	160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
	844-001	2 INCH ELECTRIC FUEL GAUGE		
	148-072	ENGINE REMOTE INTERFACE WITH ONE OR MORE SET SPEEDS		
	48H-002	QUICKFIT POWERTRAIN INTERFACE CONNECTOR LOCATED BETWEEN SEATS WITH BLUNTCUTS		
N	48C-008	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR 1 UNDER CAB, CONNECTOR 2 BETWEEN SEATS, W/BLUNTCUTS		
	163-014	ENGINE REMOTE INTERFACE CONNECTOR AT POWERTRAIN INTERFACE CONNECTOR		
	856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
	852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
	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		

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Data Code	Description	Weight Front	Weight Rear
372-123	PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE		
736-998	NO OBSTACLE DETECTION SYSTEM		
72J-998	NO DR ASSIST SYSTEM		
49B-998	NO VEHICLE STABILITY ADVISOR OR CONTROL		
73B-998	NO LANE DEPARTURE WARNING SYSTEM		
679-998	NO OVERHEAD INSTRUMENT PANEL		
35M-013	2 QUICKFIT PROGRAMMABLE INTERFACE MODULES	20	
786-113	GENERIC TELEMATICS PREWIRE (CONSTANT BATTERY POWER/IGNITION/GROUND/J1939); RP1226 TYPE CONNECTOR AT PASSENGER SIDE OF DASH END		
1U1-002	TOP OF DASH RAM MOUNT WITHOUT POWER OR GROUND, FOR CUSTOMER FURNISHED DEVICE		
746-137	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939		
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF		
749-998	NO CB RADIO MOUNTING PROVISION		
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		
8D1-313	3 YEARS DAIMLER CONNECTIVITY BASE PACKAGE ON (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT ON CUMMINS ENGINES		
6TS-005	TMC RP1226 ACCESSORY CONNECTOR LOCATED BEHIND PASSENGER SIDE REMOVEABLE DASH PANEL		
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
329-133	FOUR EXTRA HARDWIRED SWITCHES IN DASH, ROUTE TO BETWEEN SEATS, BLUNTCUT		
4C1-005	HARDWIRE SWITCH #1, ON/OFF MOMENTARY, 20 AMPS IGNITION POWER		

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Data Code	Description	Weight Front	Weight Rear
4C2-005	HARDWIRE SWITCH #2,ON/OFF MOMENTARY, 20 AMPS IGNITION POWER		
4C3-005	HARDWIRE SWITCH #3,ON/OFF MOMENTARY, 20 AMPS IGNITION POWER		
4C4-005	HARDWIRE SWITCH #4,ON/OFF MOMENTARY, 20 AMPS IGNITION 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		
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		
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		
963-013	PDI APPLIED INITIAL APPLICATION OF KROWN KL-73 ANTI-CORROSION SPRAY		
Certification / Compliance			
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		

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Data Code	Description	Weight Front	Weight Rear
Secondary Factory Options			
998-032	CORPORATE PDI CENTER OPTION INSTALLATION/MODIFICATION ONLY		
999-062	DEALER/CUSTOMER ADVISED AND ACCEPTS BUMPER SHOULD BE REMOVED PRIOR TO RECOVERING/TOWING THE VEHICLE PER FRACAS:11687		

Sales Programs			
PMY-3D2	SD QUOTE SALES PROGRAM		
RD1-313	3 YEARS DAIMLER CONNECTIVITY BASE PACKAGE ON (FEATURES VARY BY MODEL) POWERED BYDETROIT CONNECT ON CUMMINS ENGINES		

TOTAL VEHICLE SUMMARY

Weight Summary			
	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	9045 lbs	8781 lbs	17826 lbs
Total Weight ⁺	9045 lbs	8781 lbs	17826 lbs

Extended Warranty	
WAI-47H	CUM 2017 L9: HD1 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM EXTENDED WARRANTY. FEX APPLIES
WAX-101	CUM 2017 L9: AT3 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM AFTERTREATMENT. FEX APPLIES
WAK-140	ALLISON 4500 RDS SERIES TRANSMISSION EXTENDED WARRANTY, 5 YEARS/UNLIMITED MILES FEX
WAG-078	TOWING: 5 YEARS/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$750 CAP FEX APPLIES

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(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

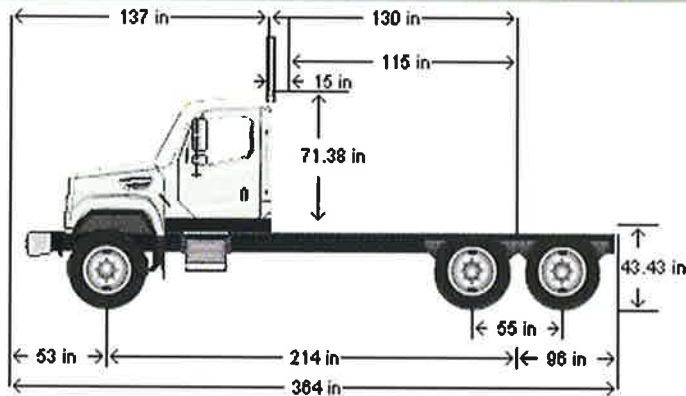
(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model..... 114SD
Wheelbase (545)..... 5425MM (214 INCH) WHEELBASE
Rear Frame Overhang (552)..... 2450MM (96 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

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TABLE SUMMARY - DIMENSIONS

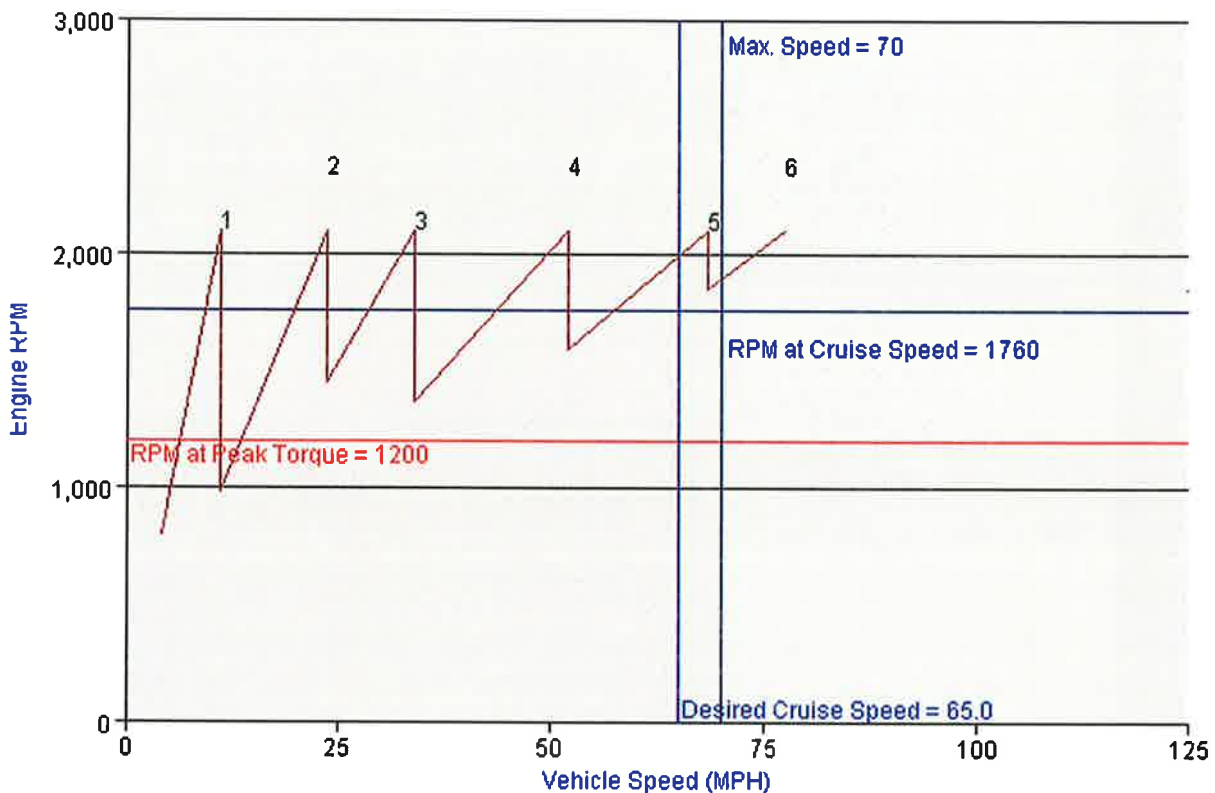
Dimensions	Inches
Bumper to Back of Cab (BBC)	137.0
Bumper to Centerline of Front Axle (BA)	53.5
Front Axle to Back of Cab (AC)	83.5
Min. Cab to Body Clearance (CB)	15.0
Back of Cab to Centerline of Rear Axle(s) (CA)	130.1
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	115.1
Back 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)	15.0
Back of Cab to End of Frame	226.6
Cab Height (CH)	71.4
Wheelbase (WB)	213.6
Frame Overhang (OH)	96.5
Overall Frame Length	361.8
Overall Length (OAL)	363.6
Rear Axle Spacing	55.0
Unladen Frame Height at Centerline of Rear Axle	43.4

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

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SHIFT CHART



VEHICLE SPECIFICATIONS SUMMARY - SHIFT CHART

Model..... 114SD
Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph)..... 65.0

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Engine (101)	CUM L9 380 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-FT @ 1200 RPM
RPM at Peak Torque	1200
Governed RPM	2100
Transmission (342)	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: LL	N/A
Gear Ratio: L	N/A
Gear Ratio: 1	4.7
Gear Ratio: 2	2.21
Gear Ratio: 3	1.53
Gear Ratio: 4	1
Gear Ratio: 5	0.76
Gear Ratio: 6	0.67
Gear Ratio: 7	N/A
Gear Ratio: 8	N/A
Gear Ratio: 9	N/A
Gear Ratio: 10	N/A
Gear Ratio: 11	N/A
Gear Ratio: 12	N/A
Gear Ratio: 13	N/A
Gear Ratio: 14	N/A
Gear Ratio: 15	N/A
Gear Ratio: 16	N/A
Gear Ratio: 17	N/A
Gear Ratio: 18	N/A
Auxiliary Transmission (352)	NO AUXILIARY TRANSMISSION
Low Gear Ratio	N/A
High Gear Ratio	N/A
Transfer Case (373)	NO TRANSFER CASE
Low Gear Ratio	N/A
High Gear Ratio	N/A
Rear Axle (420)	CUMMINS-MERITOR RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	4.89 REAR AXLE RATIO
Rear Tires (094)	MICHELIN XDS2 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile	496

TABLE SUMMARY - SHIFT CHART

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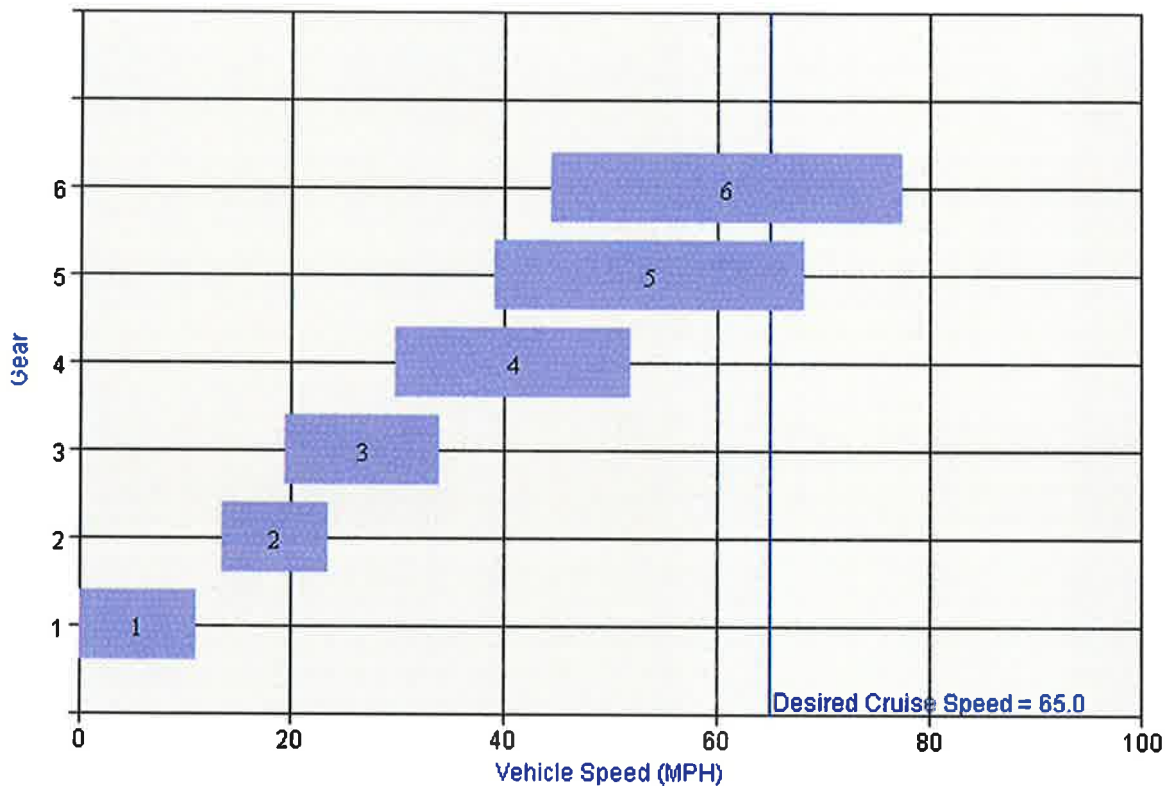
Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Percent Split	RPM After Shift	MPH at Peak Torque RPM	MPH at Governed
1	4.70	4.89	22.98	N/A	800	6.3	11.1
2	2.21	4.89	10.81	112.7	987	13.4	23.5
3	1.53	4.89	7.48	44.4	1454	19.4	34.0
4	1.00	4.89	4.89	53.0	1373	29.7	51.9
5	0.76	4.89	3.72	31.6	1596	39.1	68.4
6	0.67	4.89	3.28	13.4	1851	44.3	77.5

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OPERATING RANGE



VEHICLE SPECIFICATIONS SUMMARY - OPERATING RANGE

Model..... 114SD
Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph)..... 65.0

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Engine (101)	CUM L9 380 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-FT @ 1200 RPM
RPM at Peak Torque	1200
Governed RPM	2100
Transmission (342)	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: LL	N/A
Gear Ratio: L	N/A
Gear Ratio: 1	4.7
Gear Ratio: 2	2.21
Gear Ratio: 3	1.53
Gear Ratio: 4	1
Gear Ratio: 5	0.76
Gear Ratio: 6	0.67
Gear Ratio: 7	N/A
Gear Ratio: 8	N/A
Gear Ratio: 9	N/A
Gear Ratio: 10	N/A
Gear Ratio: 11	N/A
Gear Ratio: 12	N/A
Gear Ratio: 13	N/A
Gear Ratio: 14	N/A
Gear Ratio: 15	N/A
Gear Ratio: 16	N/A
Gear Ratio: 17	N/A
Gear Ratio: 18	N/A
Auxiliary Transmission (352)	NO AUXILIARY TRANSMISSION
Low Gear Ratio	N/A
High Gear Ratio	N/A
Transfer Case (373)	NO TRANSFER CASE
Low Gear Ratio	N/A
High Gear Ratio	N/A
Rear Axle (420)	CUMMINS-MERITOR RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	4.89 REAR AXLE RATIO
Rear Tires (094)	MICHELIN XDS2 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile	496

TABLE SUMMARY - OPERATING RANGE

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Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Minimum Speed (MPH)	Maximum Speed (MPH)
1	4.70	4.89	22.98	0	11.1
2	2.21	4.89	10.81	13.4	23.5
3	1.53	4.89	7.48	19.4	34.0
4	1.00	4.89	4.89	29.7	51.9
5	0.76	4.89	3.72	39.1	68.4
6	0.67	4.89	3.28	44.3	77.5

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GVWR

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model 114SD
Cab Size (829) 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs) 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# FLAT LEAF FRONT SUSPENSION
Front Hubs (418) CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502) MAXION WHEELS 10041 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS
Front Tires (093) MICHELIN XZU-S2 315/80R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402) MERITOR 16.5X6 Q+ CAST SPIDER 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 90260 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS
Rear Tires (094) MICHELIN XDS2 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

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TABLE SUMMARY - GVWR

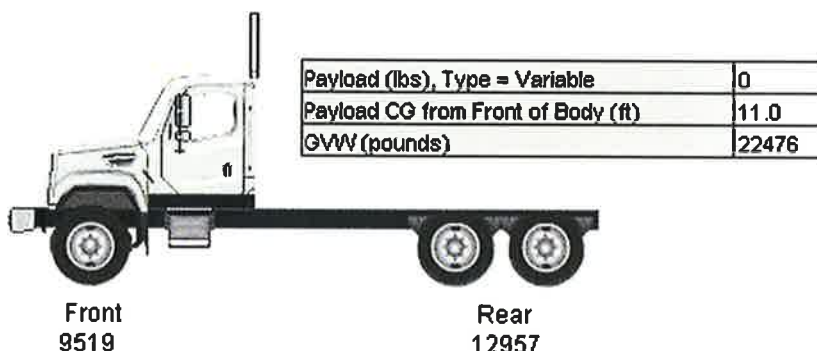
	Front	Rear 1	Rear 2
Axle Component Weight Ratings			
Axles	20000	23000	23000
Suspension	20000	23000	23000
Hubs	23000	26000	26000
Brakes	20000	23000	23000
Wheels	20000	31200	31200
Tires	20000	24020	24020
Power Steering	22000	N/A	N/A
GAWR (per axle)	20000	23000	23000
GAWR (per axle system)	20000		46000
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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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)..... 5425MM (214 INCH) WHEELBASE
Pusher / Tag Axle (443)..... NO PUSHER OR TAG AXLE
Front Axle to Back of Cab (in)..... 83.464
Cab to Body Clearance (in)..... 15.0
Front Axle to Body (in)..... 98.464
Truck Configuration (AA3)..... UTILITY BODY
Body Length (ft)..... 22.0
Body Weight (lbs)..... 3600.0
Body Horiz CG from Body Front (ft)..... 11.0
Body Front to Rear Axle(s) CL (ft)..... 9.59

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Driver Weight (lbs)500.0
Driver Horizontal CG from Front Axle (in)33.558
Left-Hand Primary Fuel/Hydraulic Tank (204)60 GALLON/227 LITER ALUMINUM FUEL TANK - LH
Left Fuel Tank Horizontal CG (in)88.222
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	9045	8781	17826
Fuel / Oil	338	212	550
Driver	421	79	500
Dealer Installed Options	0	0	0
Accessories Total	0	0	0
Body Tare	-285	3885	3600
Truck Tare Weight	9519	12957	22476
Payload Total	0	0	0
Calculated Axle Loads	9519	12957	22476
Expected Axle Loads / GVW	20000	46000	66000
GAWR / GVWR	20000	46000	66000
Payload CG From Front of Body	11 feet		
Payload CG From Front Axle	19.2 feet		
Payload Distribution	Variable		
All weights displayed in pounds			

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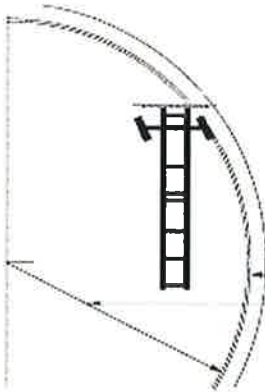
Item	Front(s)	Rear(s)	Total
Chassis Tare	9045	8781	17826
Fuel / Oil	338	212	550
Driver	421	79	500
Dealer Installed Options	0	0	0
Accessories Total	0	0	0
Body Tare	-285	3885	3600
Truck Tare Weight	9519	12957	22476
Payload Total	0	0	0
Calculated Axle Loads	9519	12957	22476
Expected Axle Loads / GVW	20000	46000	66000
GAWR / GVWR	20000	46000	66000
Payload CG From Front of Body		11 feet	
Payload CG From Front Axle		19.2 feet	
Payload Distribution		Variable	
All weights displayed in pounds			

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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)	72.9	+/- 3.0
Curb to Curb Diameter (ft)	65.1	+/- 3.0
Turning Radius (ft)	32.0	+/- 1.5

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model.....114SD
Cab Size (829).....114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Wheelbase (545).....5425MM (214 INCH) WHEELBASE
Front Tires (093).....MICHELIN XZU-S2 315/80R22.5 20 PLY RADIAL FRONT TIRES
Width (in)12.5
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).....16.5 INCH PAINTED STEEL STRAIGHT BUMPER
Width (in)95.8
Bumper Miter to Front Axle (in)77.492
Primary Steering Location (003).....LH PRIMARY STEERING LOCATION
Steering Gear (536).....TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR
Dual Steering GearRCH45
RamNONE
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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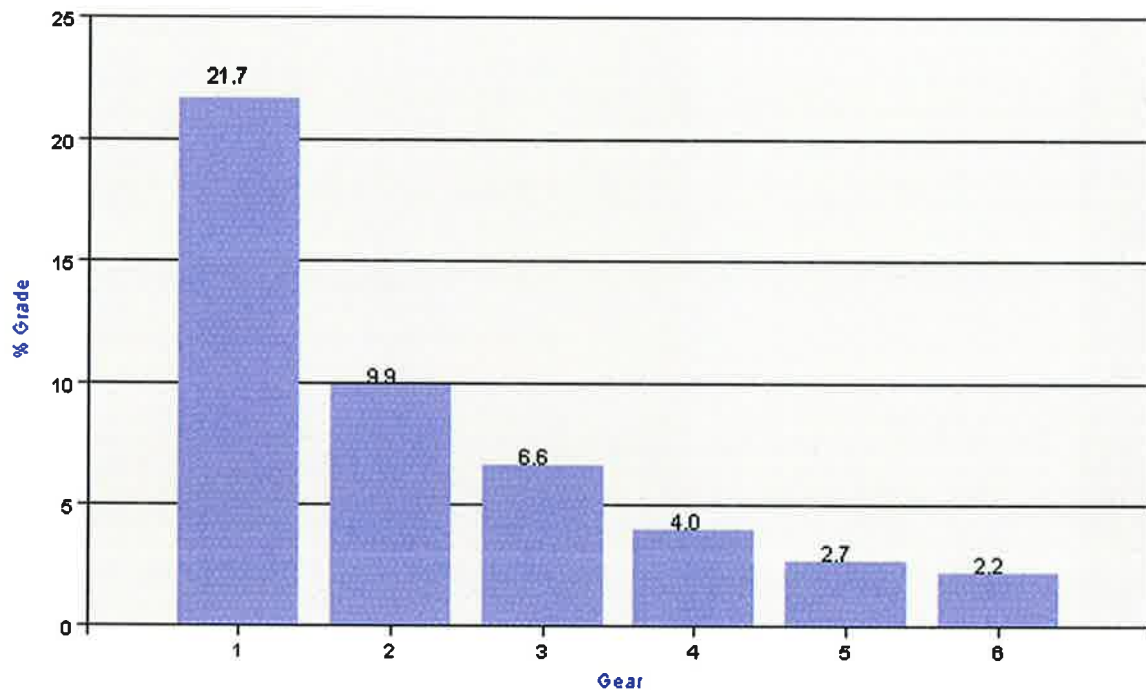
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GRADEABILITY



Desired Gradeability at Peak Torque = 0.5

VEHICLE SPECIFICATIONS SUMMARY - GRADEABILITY

Model.....114SD
Cab Size (829).....114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Gradeability at Peak Torque (%).....0.5

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Desired Gradeability at Cruise Speed(%)	0.3
Desired Cruise Speed (mph)	65.0
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
Engine (101)	CUM L9 380 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-FT @ 1200 RPM
Peak Torque (lbs-ft)	1250
RPM at Peak Torque	1200
Peak Torque (Multi-torque High) (lbs-ft)	1250
RPM at Peak Torque (Multi-torque High)	1200
Multi-torque	NO
Transmission (342)	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Rear Axle (420)	CUMMINS-MERITOR RT-46-160 46,000# R-SERIES TANDEM REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	4.89 REAR AXLE RATIO
Rear Tires (094)	MICHELIN XDS2 11R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile	496
Trailer Width (in)	0.0
Trailer Height (ground to top) (ft)	10.0
Body Width (in)	96.0
Body Height (ground to top) (ft)	10.0
Roof Mounted Aero Device (784)	NO AIR SHIELD OR BRACKETS
Road Surface (AB5)	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
Auxiliary Transmission (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
Trailer Configuration (AA2)	NO TRAILER SPECIFIED

TABLE SUMMARY - GRADEABILITY

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Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	4.70	22.98	6.3	241.1	21.7
2	2.21	10.81	13.4	234.0	9.9
3	1.53	7.48	19.4	226.4	6.6
4	1.00	4.89	29.7	208.7	4.0
5	0.76	3.72	39.1	185.8	2.7
6	0.67	3.28	44.3	169.5	2.2
Desired Gradeability at Peak Torque			0.5		
Rear Axle Ratio			4.89		
Gross HP Available at Peak Torque			285		
RPM at Peak Torque			1200		
*Blue background represents value input by user.					

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	4.70	22.98	9.3	302.5	18.6
2	2.21	10.81	19.7	290.2	8.4
3	1.53	7.48	28.5	275.4	5.5
4	1.00	4.89	43.5	236.2	3.1
5	0.76	3.72	57.3	180.6	1.8
6	0.67	3.28	65.0	139.1	1.2
Desired Gradeability at Cruise Speed			0.3		
Desired Cruise Speed			65.0		
Rear Axle Ratio			4.89		
Gross HP Available at Cruise Speed			382		
RPM at Cruise Speed			1760		
*Blue background represents value input by user.					

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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545) 5425MM (214 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	5425MM (214 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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FRAME SIDE SPACE

VEHICLE SPECIFICATIONS SUMMARY - FRAME SIDE SPACE

Model.....114SD
Wheelbase (545)..... 5425MM (214 INCH) WHEELBASE
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
Frame Side Space LH (in)..... 82.6046772
Frame Side Space RH (in)..... 75.7186772
Battery Box (290)..... BATTERY BOX FRAME MOUNTED
Left-Hand Primary Fuel/Hydraulic Tank (204) 60 GALLON/227 LITER ALUMINUM FUEL TANK - LH
Left-Hand Auxiliary Fuel Tank(200)..... NO LH AUXILIARY FUEL TANK
Right-Hand Primary Fuel/Hydraulic Tank (206) NO RH FUEL TANK
Right-Hand Auxiliary Fuel Tank(201)..... NO RH AUXILIARY FUEL TANK
Diesel Exhaust Fluid Tank(23U)..... 13 GALLON DIESEL EXHAUST FLUID TANK
Rear Fenders(583)..... NO REAR QUARTER FENDERS
Hydraulic Tank (203)..... NO HYDRAULIC OIL TANK

TABLE SUMMARY - FRAME SIDE SPACE

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Dimensions (Left Side)	Inches
Max CP - Maximum value of all Cab Protrusions	15.0
Bumper to chassis zero dimension	28.1
First front axle to chassis zero dimension	25.4
Bumper to Centerline of Front Axle (BA)	53.5
Wheelbase (WB)	213.6
Frame Overhang (OH)	96.5
Overall Length (OAL)	363.6
Length of Front Tire Unladen Radius (UR)	21.4
Length of Rear Tire Unladen Radius (UR)	20.9
Length Rear Axle Spacing factor	55.0
Pusher Axle Spacing	0.0
Length of Pusher Tire Unladen Radius (UR)	0.0
Frame Space Left Side	82.6
Side Step Left Side	0.0
Exhaust Left Side	0.0
Urea Tank Left Side	13.6
Battery Box Left Side	0.0
Fuel Tank Left Side	30.0
Hydraulic Tank Left Side	0.0
Aux1 Tank Left Side	0.0
Aux2 Tank Left Side	0.0
StoreBox1 Tank Left Side	0.0
StoreBox2 Tank Left Side	0.0
Frame Step Left Side	0.0
Fender Left Side	0.0
Other1 Left Side	0.0
Other2 Left Side	0.0
Adj Left Side	0.0

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Dimensions (Right Side)	Inches
Max CP - Maximum value of all Cab Protrusions	15.0
Bumper to chassis zero dimension	28.1
First front axle to chassis zero dimension	25.4
Bumper to Centerline of Front Axle (BA)	53.5
Wheelbase (WB)	213.6
Frame Overhang (OH)	96.5
Overall Length (OAL)	363.6
Length of Front Tire Unladen Radius (UR)	21.4
Length of Rear Tire Unladen Radius (UR)	20.9
Length Rear Axle Spacing factor	55.0
Pusher Axle Spacing	0.0
Length of Pusher Tire Unladen Radius (UR)	0.0
Frame Space Right Side	75.7
Side Step Right Side	0.0
Exhaust Right Side	37.6
Urea Tank Right Side	0.0
Battery Box Right Side	0.0
Fuel Tank Right Side	0.0
Hydraulic Tank Right Side	0.0
Aux1 Tank Right Side	0.0
Aux2 Tank Right Side	0.0
StoreBox1 Tank Right Side	0.0
StoreBox2 Tank Right Side	0.0
Frame Step Right Side	0.0
Fender Right Side	0.0
Other1 Right Side	0.0
Other2 Right Side	0.0
Adj Right Side	0.0

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