

Prepared for:
Francisco Diaz
City of Lake Elsinore
130 S Main Street
Lake Elsinore, CA 92530
Phone: 951-674-5170

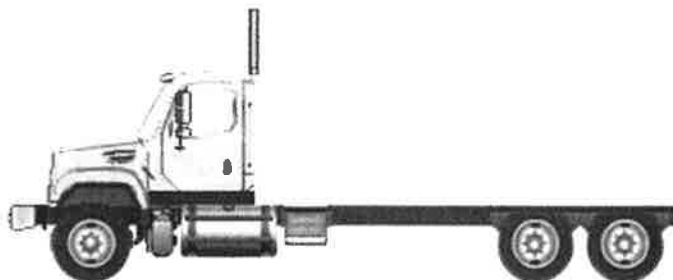
Prepared by:
David Pratt
LOS ANGELES FTL - WST
13800 VALLEY BLVD.
FONTANA, CA 92335
Phone: 909-770-5195

A proposal for
City of Lake Elsinore

Prepared by
LOS ANGELES FTL - WST
David Pratt

Jan 08, 2019

Freightliner 114SD
City of Lake Elsinore



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



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

Data Code	Description	Weight Front	Weight Rear	Retail Price
Price Level				
PRL-18D	SD PRL-18D (EFF:04/17/18)			STD
Data Version				
DRL-033	SPECPRO21 DATA RELEASE VER 033			N/C
Vehicle Configuration				
001-177	114SD CONVENTIONAL CHASSIS	7,934	6,576	\$154,920.00
004-220	2020 MODEL YEAR SPECIFIED			N/C
002-003	SET FORWARD AXLE - TRUCK			STD
019-002	STRAIGHT TRUCK PROVISION			STD
003-001	LH PRIMARY STEERING LOCATION			STD
General Service				
AA1-002	TRUCK CONFIGURATION			STD
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)			STD
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE			N/C
A84-1GM	GOVERNMENT BUSINESS SEGMENT			N/C
AA4-002	LIQUID BULK COMMODITY			N/C
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			STD
AB1-008	MAXIMUM 8% EXPECTED GRADE			STD
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			STD
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY			N/C
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 60000.0 lbs			
Truck Service				
AA3-034	SEWER/INDUSTRIAL VACUUM BODY			N/C
AF3-2AA	SEWER EQUIPMENT COMPANY			N/C



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Data Code	Description	Weight Front	Weight Rear	Retail Price
Engine				
101-22V	CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM	-850	-70	(\$3,843.00)
Electronic Parameters				
79A-065	65 MPH ROAD SPEED LIMIT			N/C
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			N/C
79K-005	PTO MODE ENGINE RPM LIMIT - 900 RPM			N/C
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED			N/C
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM			N/C
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			N/C
79S-007	PTO MODE CANCEL VEHICLE SPEED - 20 MPH			N/C
79U-008	PTO GOVERNOR RAMP RATE - 300 RPM PER SECOND			N/C
79W-002	TWO REMOTE PTO SPEEDS			N/C
79X-001	PTO SPEED 1 SETTING - 700 RPM			N/C
79Y-001	PTO SPEED 2 SETTING - 900 RPM			N/C
80G-002	PTO MINIMUM RPM - 700			N/C
80J-001	REGEN INHIBIT SPEED THRESHOLD - 0 MPH			N/C
Engine Equipment				
99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION			STD
99D-009	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LEFT SIDE OF HOOD)			\$109.00
13E-001	STANDARD OIL PAN			STD
105-001	ENGINE MOUNTED OIL CHECK AND FILL			STD
014-1B5	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED			STD
124-1E1	DR 12V 200 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			\$137.00
292-209	(3) DTNA GENUINE, FLOODED STARTING, MIN 3375CCA, 585RC, THREADED STUD BATTERIES			STD
290-017	BATTERY BOX FRAME MOUNTED			STD
281-001	STANDARD BATTERY JUMPERS			STD
282-003	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			STD
289-001	NON-POLISHED BATTERY BOX COVER			STD
87P-001	CAB AUXILIARY POWER CABLE	5		\$66.00
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8		\$230.00
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2		\$97.00
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			N/C
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM			STD
128-076	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20		N/C
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25	\$823.00
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			STD
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			N/C
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			N/C
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK			STD
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			STD
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			STD
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			STD
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD			\$48.00
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE			N/C
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED			\$10.00
110-003	CUMMINS SPIN ON FUEL FILTER			N/C
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER			N/C

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120-009	FLEETGUARD PLAIN COOLANT FILTER			\$122.00
266-017	1300 SQUARE INCH ALUMINUM RADIATOR	-20		N/C
103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT			\$18.00
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			STD
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			STD
270-016	RADIATOR DRAIN VALVE			N/C
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20		\$1,276.00
132-004	ELECTRIC GRID AIR INTAKE WARMER			N/C
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-10		N/C

Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION			STD
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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			STD
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			N/C
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			STD
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			STD
84E-017	S5 PERFORMANCE LIMITING PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84F-018	S7 ECONOMY LIMITING SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84G-013	2100 RPM PRIMARY MODE SHIFT SPEED			N/C
84H-011	1950 RPM SECONDARY MODE SHIFT SPEED			N/C
84L-010	DISABLE - LOAD BASED SHIFT SCHEDULE, DISABLE - VEHICLE ACCELERATION CONTROL			N/C
84N-000	NEUTRAL AT STOP - DISABLED, FUELSense - DISABLED			STD

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84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES			STD
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS			STD
353-023	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT END OF FRAME			\$53.00
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED			\$23.00
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO			N/C
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION			N/C
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			STD
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			STD
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013			STD
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-15		N/C
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			STD
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			STD

Front Axle and Equipment

400-1AC	MFS-20-133A 20,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	260		\$3,576.00
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10		N/C
403-002	NON-ASBESTOS FRONT BRAKE LINING			STD
419-023	CONMET CAST IRON FRONT BRAKE DRUMS			STD
427-001	FRONT BRAKE DUST SHIELDS	5		\$102.00
409-006	FRONT OIL SEALS			STD
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			STD
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES			STD
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS			STD
406-001	STANDARD KING PIN BUSHINGS			STD
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130		N/C
539-003	POWER STEERING PUMP			STD

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534-003	4 QUART POWER STEERING RESERVOIR			N/C
533-001	OIL/AIR POWER STEERING COOLER			N/C
40T-002	SYNTHETIC 75W-90 FRONT AXLE LUBE			\$14.00
Front Suspension				
620-006	20,000# FLAT LEAF FRONT SUSPENSION	310		\$815.00
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION			N/C
410-001	FRONT SHOCK ABSORBERS			STD
Rear Axle and Equipment				
420-236	RT-46-164 46,000# R-SERIES 78 INCH WIDE TRACK TANDEM REAR AXLE		570	\$6,509.00
421-489	4.89 REAR AXLE RATIO			N/C
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			STD
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	40	40	\$464.00
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES			STD
878-019	(1) INTERAXLE LOCK VALVE FOR TANDEM OR TRIDEM DRIVE AXLES			STD
87A-001	BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF			STD
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			STD
433-002	NON-ASBESTOS REAR BRAKE LINING			STD
434-003	STANDARD BRAKE CHAMBER LOCATION			STD
451-023	CONMET CAST IRON REAR BRAKE DRUMS			STD
425-002	REAR BRAKE DUST SHIELDS		10	\$108.00
440-006	REAR OIL SEALS			STD
426-112	WABCO TRISTOP-D LONGSTROKE 30/36 2- DRIVE AXLE SPRING PARKING CHAMBERS			\$109.00
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS			\$110.00
41T-002	SYNTHETIC 75W-90 REAR AXLE LUBE			\$248.00
42T-001	STANDARD REAR AXLE BREATHER(S)			STD
Rear Suspension				
622-1CJ	HENDRICKSON RT463 @46,000# REAR SUSPENSION		750	\$3,124.00
621-015	HENDRICKSON RT/RTE - 6.00" SADDLE			(\$187.00)

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Data Code	Description	Weight Front	Weight Rear	Retail Price
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			STD
624-009	54 INCH AXLE SPACING		10	\$250.00
628-005	STEEL BEAMS AND BRONZE CENTER BUSHINGS WITH BAR PIN ADJUSTABLE END CONNECTIONS			N/C
623-005	FORE/AFT CONTROL RODS			N/C
Brake System				
490-100	WABCO 4S/4M ABS			STD
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD
904-001	FIBER BRAID PARKING BRAKE HOSE			STD
412-001	STANDARD BRAKE SYSTEM VALVES			STD
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			STD
413-002	STD U.S. FRONT BRAKE VALVE			STD
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			STD
480-047	BW AD-IS (DRM) BRAKE LINE AIR DRYER WITH SHIELD, HEATER AND INTEGRAL RESERVOIR			\$162.00
479-014	AIR DRYER RESERVOIR MOUNTED			N/C
460-001	STEEL AIR BRAKE RESERVOIRS			STD
607-021	CLEAR FRAME RAIL FROM BOC TO FT RR SUSP BRKT, LH RAIL INBOARD			\$63.00
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)			\$9.00
Trailer Connections				
296-027	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR COMBINATION STOP/TURN, CENTER PIN POWERED THROUGH IGNITION WITH STOP SIGNAL PREWIRE PACKAGE			\$169.00
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME	5	5	\$849.00
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT			STD
Wheelbase & Frame				
545-698	6975MM (275 INCH) WHEELBASE			N/C
546-1B2	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI	990	80	\$2,526.00
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	240	460	\$1,385.00
552-037	1775MM (70 INCH) REAR FRAME OVERHANG			N/C
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH			N/C

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549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	140	-20	\$691.00
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 191.14 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 188.14 in			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 396.19			
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 191.54 in			
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 103.65 in			N/C
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 244.87 in			N/C
553-001	SQUARE END OF FRAME			STD
587-003	REAR TOW HOOKS		10	\$49.00
550-001	FRONT CLOSING CROSSMEMBER			STD
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER			STD
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)			STD
572-001	STANDARD REARMOST CROSSMEMBER			STD
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER		30	N/C
Chassis Equipment				
556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203	-100		(\$294.00)
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15		\$95.00
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS			STD
Fuel Tanks				
204-157	110 GALLON/416 LITER ALUMINUM FUEL TANK - LH	20	10	\$369.00
218-006	25 INCH DIAMETER FUEL TANK(S)			STD
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			STD
212-007	FUEL TANK(S) FORWARD			STD
664-001	PLAIN STEP FINISH			STD
205-001	FUEL TANK CAP(S)			STD
122-1H4	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR AND 12 VOLT PREHEATER	10		\$30.00
216-020	EQUIFLO INBOARD FUEL SYSTEM			STD
11F-998	NO NATURAL GAS VEHICLE FUEL TANK VENT LINE/STACK			STD

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20E-004	AUXILIARY FUEL SUPPLY AND RETURN PORTS LOCATED ON LH FUEL TANK			\$19.00
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD
Tires				
093-0TB	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES	196		\$1,000.00
094-1UY	MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)		120	(\$80.00)
Hubs				
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			STD
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS			STD
Wheels				
502-566	MAXION WHEELS 10035 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS	102		\$402.00
505-545	MAXION WHEELS 90260 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		160	N/C
Cab Exterior				
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			STD
650-008	AIR CAB MOUNTING			STD
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			STD
667-001	FRONT FENDERS			STD
754-002	3-1/2 INCH FENDER EXTENSIONS	15		\$192.00
678-001	LH AND RH GRAB HANDLES			STD
645-002	BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL			\$221.00
646-042	STATIONARY BLACK GRILLE WITH BRIGHT ACCENTS			\$66.00
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			\$15.00
644-004	FIBERGLASS HOOD			STD
690-002	TUNNEL/FIREWALL LINER			\$126.00
727-1AH	SINGLE 14 INCH ROUND POLISHED AIR HORN ROOF MOUNTED			STD
726-001	SINGLE ELECTRIC HORN			STD
728-001	SINGLE HORN SHIELD			STD
657-1CV	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME WITH (4) KEYS			\$18.00

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575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
312-067	HALOGEN COMPOSITE HEADLAMPS WITH BRIGHT BEZELS			N/C
302-047	LED AERODYNAMIC MARKER LIGHTS			\$34.00
311-012	DAYTIME RUNNING LIGHTS - LOW BEAM ONLY			\$21.00
294-017	INTEGRAL STOP/TAIL/BACKUP LIGHTS WITH 7 EXTRA FEET OF WIRE MOUNTED AT END OF FRAME			\$15.00
300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE			\$286.00
797-001	DOOR MOUNTED MIRRORS			STD
796-001	102 INCH EQUIPMENT WIDTH			STD
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			N/C
74A-001	RH DOWN VIEW MIRROR			\$21.00
729-001	STANDARD SIDE/REAR REFLECTORS			STD
677-055	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER			\$142.00
275-063	2-STAGE ELECTRIC HORN AND HAZARD LAMP ALERT CONTROLLED BY PARTICULATE FILTER REGENERATION REQUIRED STATUS			N/C
764-010	COMPOSITE EXTERIOR SUN VISOR	10		\$247.00
768-043	63X14 INCH TINTED REAR WINDOW			STD
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS			STD
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4		\$218.00
663-013	TINTED WINDSHIELD			STD
659-007	8 LITER WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR			STD

Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR			STD
706-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR			\$26.00
708-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR			\$60.00
772-006	BLACK MATS WITH SINGLE INSULATION			STD
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER			(\$2.00)

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Data Code	Description	Weight Front	Weight Rear	Retail Price
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING			STD
694-010	IN DASH STORAGE BIN			N/C
696-012	CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20		\$26.00
742-007	(2) CUP HOLDERS LH AND RH DASH			STD
680-006	GRAY/CHARCOAL FLAT DASH			(\$327.00)
860-004	SMART SWITCH EXPANSION MODULE			\$206.00
700-002	HEATER, DEFROSTER AND AIR CONDITIONER			STD
701-001	STANDARD HVAC DUCTING			STD
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
170-015	STANDARD HEATER PLUMBING			STD
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR			STD
702-002	BINARY CONTROL, R-134A			STD
739-033	STANDARD INSULATION			STD
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES			STD
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM			STD
324-014	DOVE LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS			STD
655-005	LH AND RH ELECTRIC DOOR LOCKS			\$99.00
284-023	(1) 12 VOLT POWER SUPPLY IN DASH			STD
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10		\$24.00
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30		\$225.00
760-1J3	BASIC HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10	\$255.00
759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8		\$138.00
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			STD
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER			\$2.00
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER			\$4.00
763-101	BLACK SEAT BELTS			STD
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10		\$478.00
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD
Instruments & Controls				
732-004	GRAY DRIVER INSTRUMENT PANEL			STD
734-004	GRAY CENTER INSTRUMENT PANEL			STD
87L-001	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK			N/C
870-001	BLACK GAUGE BEZELS			STD
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			STD
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			STD
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS			\$40.00
721-001	97 DB BACKUP ALARM		3	\$47.00
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL			\$2.00
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			STD
157-007	MANUAL REMOTE ENGINE STOP/START WITH PTO RE-ENGAGE			\$74.00
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED			STD
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			STD
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
148-071	ENGINE REMOTE INTERFACE WITH INCREMENT/DECREMENT			\$286.00
163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB			N/C
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			STD
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			STD
372-073	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP - PARK BRAKE AND NEUTRAL INTERLOCK FOR CUSTOMER INSTALLED PTO	5		\$67.00
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
746-115	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	10		\$398.00
747-001	DASH MOUNTED RADIO			N/C
750-002	(2) RADIO SPEAKERS IN CAB			N/C
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF			N/C
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			STD
817-001	STANDARD VEHICLE SPEED SENSOR			STD
812-001	ELECTRONIC 3000 RPM TACHOMETER			STD
813-998	NO VEHICLE PERFORMANCE MONITOR	-5		N/C
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP			STD
81Y-001	PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH			\$12.00
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY			STD
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH			STD
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR			STD
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			STD
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			STD
Design				
065-000	PAINT: ONE SOLID COLOR			STD
Color				
980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC			STD
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			STD
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			STD
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			STD
976-995	SUNVISOR PAINTED SAME AS CAB COLOR A			N/C
963-003	STANDARD E COAT/UNDERCOATING			STD

Certification / Compliance



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Data Code	Description	Weight Front	Weight Rear	Retail Price
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD

Secondary Factory Options

*	999-065	FRONT AND/OR REAR AXLE WIDTH EXCEEDS 2.6M. CUSTOMER ADVISED AND ACCEPTS RESPONSABILITY TO OBTAIN PERMIT OR VEHICLE APPLICATION IS EXEMPT FROM VEHICLE WIDTH REQ.		N/C
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Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

TOTAL VEHICLE SUMMARY

Adjusted List Price

Adjusted List Price ** \$180,537.00

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	9639 lbs	8779 lbs	18418 lbs
Total Weight ⁺	9639 lbs	8779 lbs	18418 lbs

ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE

Other Factory Charges

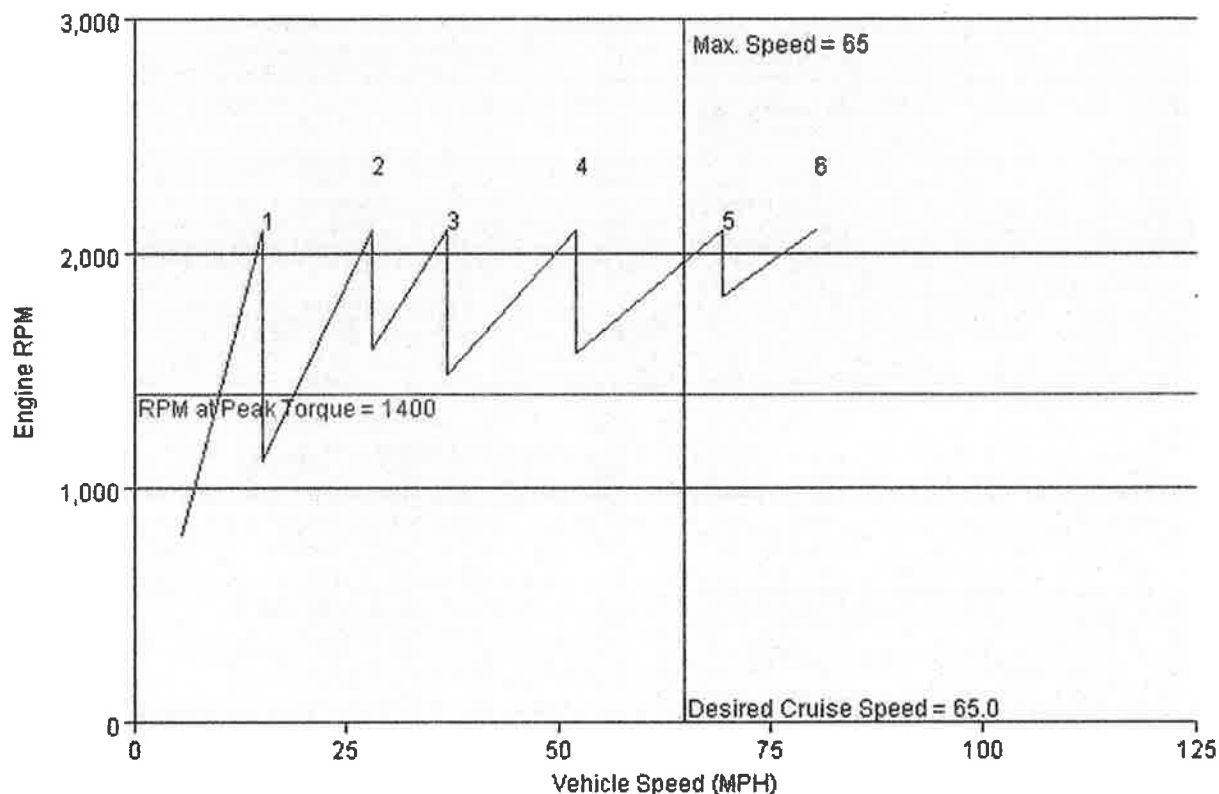
PMU-017	2016 OBD/2010 EPA/CARB/GHG17 ESCALATOR	\$300.00
P73-2FT	STANDARD DESTINATION CHARGE	\$2,100.00



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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
 Engine (101).....CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
 RPM at Peak Torque.....1400
 Governed RPM.....2100

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Transmission (342) ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
 Gear Ratio: LL N/A
 Gear Ratio: L N/A
 Gear Ratio: 1 3.49
 Gear Ratio: 2 1.86
 Gear Ratio: 3 1.41
 Gear Ratio: 4 1
 Gear Ratio: 5 0.75
 Gear Ratio: 6 0.65
 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) RT-46-164 46,000# R-SERIES 78 INCH WIDE TRACK TANDEM REAR AXLE
 Number of Speeds 1
 Rear Axle Gear Ratio(s) 4.89 REAR AXLE RATIO
 Rear Tires (094) MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)
 Revolutions per Mile 494

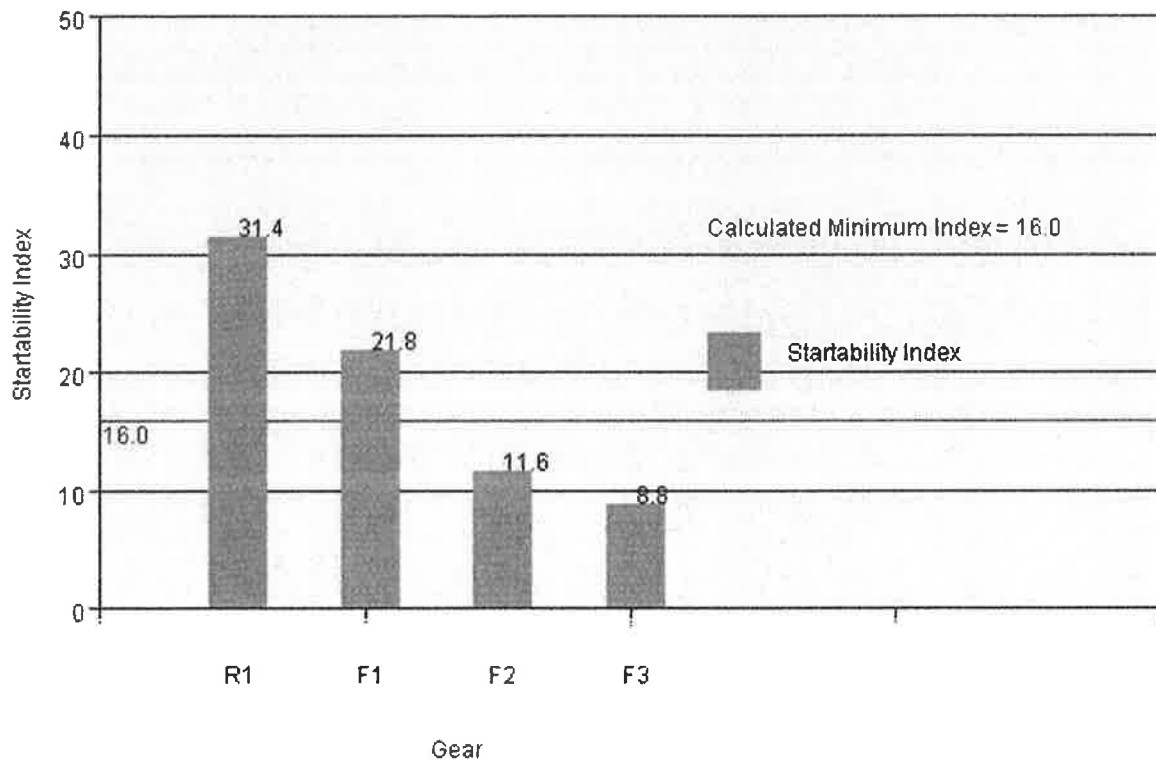
TABLE SUMMARY - SHIFT CHART

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	3.49	4.89	17.07	N/A	800	10.0	14.9
2	1.86	4.89	9.10	87.6	1119	18.7	28.0
3	1.41	4.89	6.89	31.9	1592	24.7	37.0
4	1.00	4.89	4.89	41.0	1489	34.8	52.2
5	0.75	4.89	3.67	33.3	1575	46.4	69.5
6	0.65	4.89	3.18	15.4	1820	53.5	80.2

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STARTABILITY



VEHICLE SPECIFICATIONS SUMMARY - STARTABILITY

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).....	40000.0
Expected Tag Axle(s) Load (lbs).....	0.0

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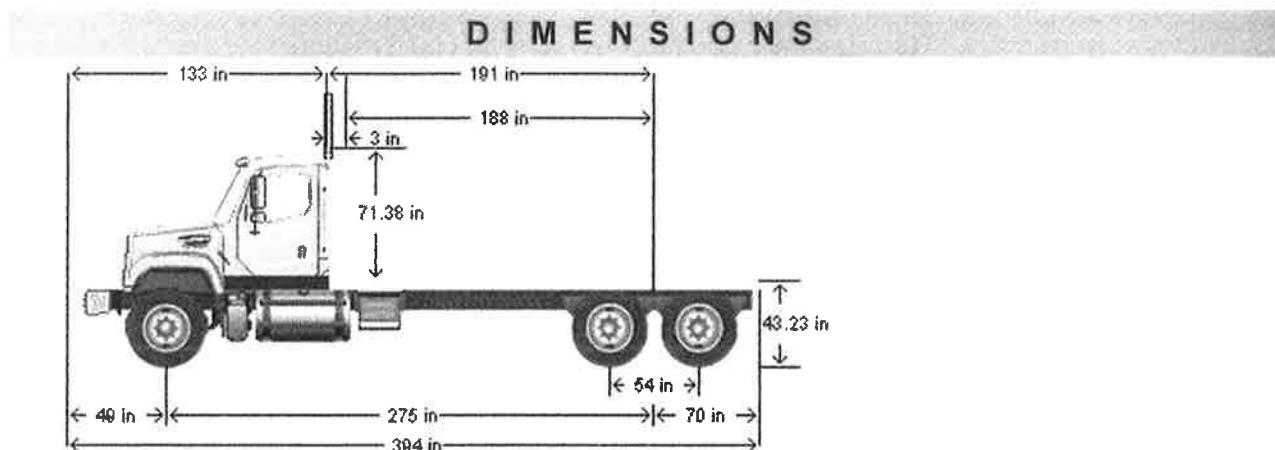
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Expected GVW (lbs)	60000
Expected GCW (lbs)	0.0
Engine (101)	CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
Torque at Clutch Engagement (lbs-ft)	550
Transmission (342)	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: Forward 1	3.49
Gear Ratio: Forward 2	1.86
Gear Ratio: Forward 3	1.41
Gear Ratio: Reverse 1	5.03
Gear Ratio: Reverse 2	N/A
Gear Ratio: Reverse 3	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)	RT-46-164 46,000# R-SERIES 78 INCH WIDE TRACK TANDEM REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	4.89 REAR AXLE RATIO
Rear Tires (094)	MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)
Revolutions per Mile	494
Vehicle Service (A85)	UTILITY/REPAIR/MAINTENANCE SERVICE
Startability Factor	.8
Terrain (AA5)	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
Startability Factor	.0
Most Severe Grade Expected (AB1)	MAXIMUM 8% EXPECTED GRADE
Startability Factor	.8
Road Surface (AB5). SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE	
Startability Factor	.0
Suggested Torque Converter Stall Ratio	1.77

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

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VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....114SD
Wheelbase (545) 6975MM (275 INCH) WHEELBASE
Rear Frame Overhang (552) 1775MM (70 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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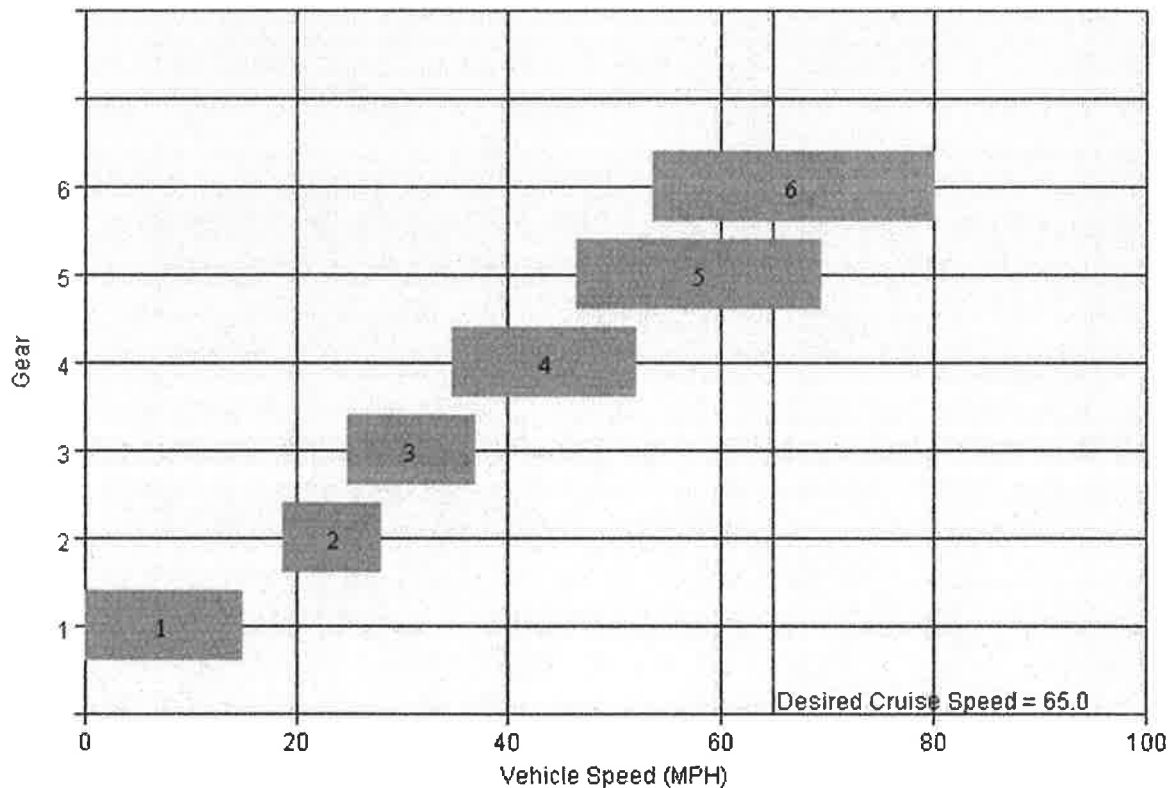
Dimensions	Inches
Bumper to Back of Cab (BBC)	132.9
Bumper to Centerline of Front Axle (BA)	49.4
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	191.1
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	188.1
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
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	261.0
Cab Height (CH)	71.4
Wheelbase (WB)	274.6
Frame Overhang (OH)	70.0
Overall Length (OAL)	393.9
Rear Axle Spacing	54.0
Unladen Frame Height at Centerline of Rear Axle	43.2

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

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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
Engine (101)..... CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
RPM at Peak Torque..... 1400
Governed RPM..... 2100

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Transmission (342)ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
 Gear Ratio: LLN/A
 Gear Ratio: LN/A
 Gear Ratio: 13.49
 Gear Ratio: 21.86
 Gear Ratio: 31.41
 Gear Ratio: 41
 Gear Ratio: 50.75
 Gear Ratio: 60.65
 Gear Ratio: 7N/A
 Gear Ratio: 8N/A
 Gear Ratio: 9N/A
 Gear Ratio: 10N/A
 Gear Ratio: 11N/A
 Gear Ratio: 12N/A
 Gear Ratio: 13N/A
 Gear Ratio: 14N/A
 Gear Ratio: 15N/A
 Gear Ratio: 16N/A
 Gear Ratio: 17N/A
 Gear Ratio: 18N/A
 Auxiliary Transmission (352) NO AUXILIARY TRANSMISSION
 Low Gear RatioN/A
 High Gear RatioN/A
 Transfer Case (373)NO TRANSFER CASE
 Low Gear RatioN/A
 High Gear RatioN/A
 Rear Axle (420)RT-46-164 46,000# R-SERIES 78 INCH WIDE TRACK TANDEM REAR AXLE
 Number of Speeds1
 Rear Axle Gear Ratio(s) 4.89 REAR AXLE RATIO
 Rear Tires (094) MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)
 Revolutions per Mile494

TABLE SUMMARY - OPERATING RANGE

Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Minimum Speed (MPH)	Maximum Speed (MPH)
1	3.49	4.89	17.07	0	14.9
2	1.86	4.89	9.10	18.7	28.0
3	1.41	4.89	6.89	24.7	37.0
4	1.00	4.89	4.89	34.8	52.2
5	0.75	4.89	3.67	46.4	69.5
6	0.65	4.89	3.18	53.5	80.2

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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).....	40000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	60000
Expected GCW (lbs).....	0.0
Front Axle (400).....	MFS-20-133A 20,000# FL1 71.0 INCH KPI/3.74 INCH 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 10035 22.5X12.25 10-HUB PILOT 4.75 INSET 5-HAND STEEL DISC FRONT WHEELS
Front Tires (093).....	MICHELIN XZY-3 425/65R22.5 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).....	RT-46-164 46,000# R-SERIES 78 INCH WIDE TRACK TANDEM REAR AXLE
Rear Suspension (622).....	HENDRICKSON RT463 @46,000# REAR 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 X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)
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
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

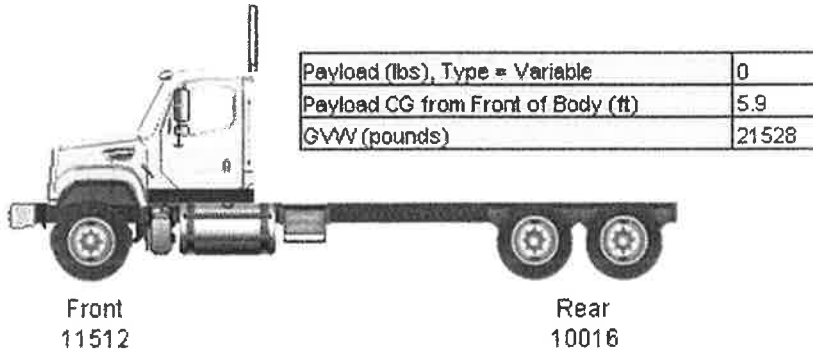
	Front	Rear 1	Rear 2
Axle Component Weight Ratings			
Axes	20000	23000	23000
Suspension	20000	23000	23000
Hubs	23000	26000	26000
Brakes	20000	21000	21000
Wheels	22800	31200	31200
Tires	22800	24020	24020
Power Steering	22000	N/A	N/A
GAWR (per axle)	20000	21000	21000
GAWR (per axle system)	20000		42000
Expected Load (per axle system)	20000		40000
Vehicle GVWR Summary			
Calculated GVWR	62000		
Expected GVWR	60000		
All weights displayed in pounds			

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)	40000.0
Expected Tag Axle(s) Load (lbs)	0.0
Expected GVW (lbs)	60000
Expected GCW (lbs)	0.0
Wheelbase (545)	6975MM (275 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)	3.0
Front Axle to Body (in)	86.464
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)	15.68
Driver Weight (lbs)	500.0
Driver Horizontal CG from Front Axle (in)	37.656
Left-Hand Fuel Tank (204)	110 GALLON/416 LITER ALUMINUM FUEL TANK - LH
Left Fuel Tank Horizontal CG (in)	72.334
Right-Hand Fuel Tank (206)	NO RH FUEL TANK
Right Fuel Tank Horizontal CG (in)	0

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TABLE SUMMARY - TRUCK WEIGHT

Item	Front(s)	Rear(s)	Total
Chassis Tare	9639	8779	18418
Fuel / Oil	686	224	910
Driver	431	69	500
Dealer Installed Options	0	0	0
Accessories Total	0	0	0
Body Tare	756	944	1700
Truck Tare Weight	11512	10016	21528
Payload Total	0	0	0
Calculated Axle Loads	11512	10016	21528
Expected Axle Loads / GVW	20000	40000	60000
GAWR / GVWR	20000	42000	62000
Payload CG From Front of Body		5.9 feet	
Payload CG From Front Axle		13.1 feet	
Payload Distribution		Variable	
All weights displayed in pounds			

Item	Front(s)	Rear(s)	Total
Chassis Tare	9639	8779	18418
Fuel / Oil	686	224	910
Driver	431	69	500
Dealer Installed Options	0	0	0
Accessories Total	0	0	0
Body Tare	756	944	1700
Truck Tare Weight	11512	10016	21528
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GAWR / GVWR	20000	42000	62000
Payload CG From Front of Body		5.9 feet	
Payload CG From Front Axle		13.1 feet	
Payload Distribution		Variable	
All weights displayed in pounds			

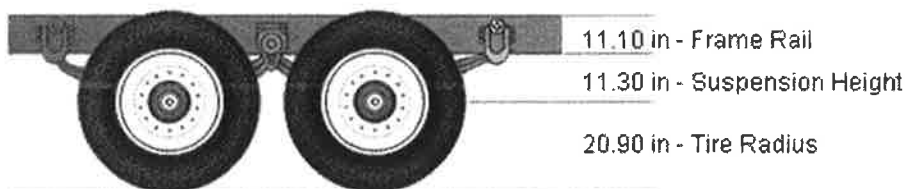
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UNLADEN FRAME HEIGHT

Unladen Height	Requested	Calculated
Tow Hitch (in)	0.00 to 0.00	32.50
Frame (in)	N/A	43.20



VEHICLE SPECIFICATIONS SUMMARY - UNLADEN FRAME HEIGHT

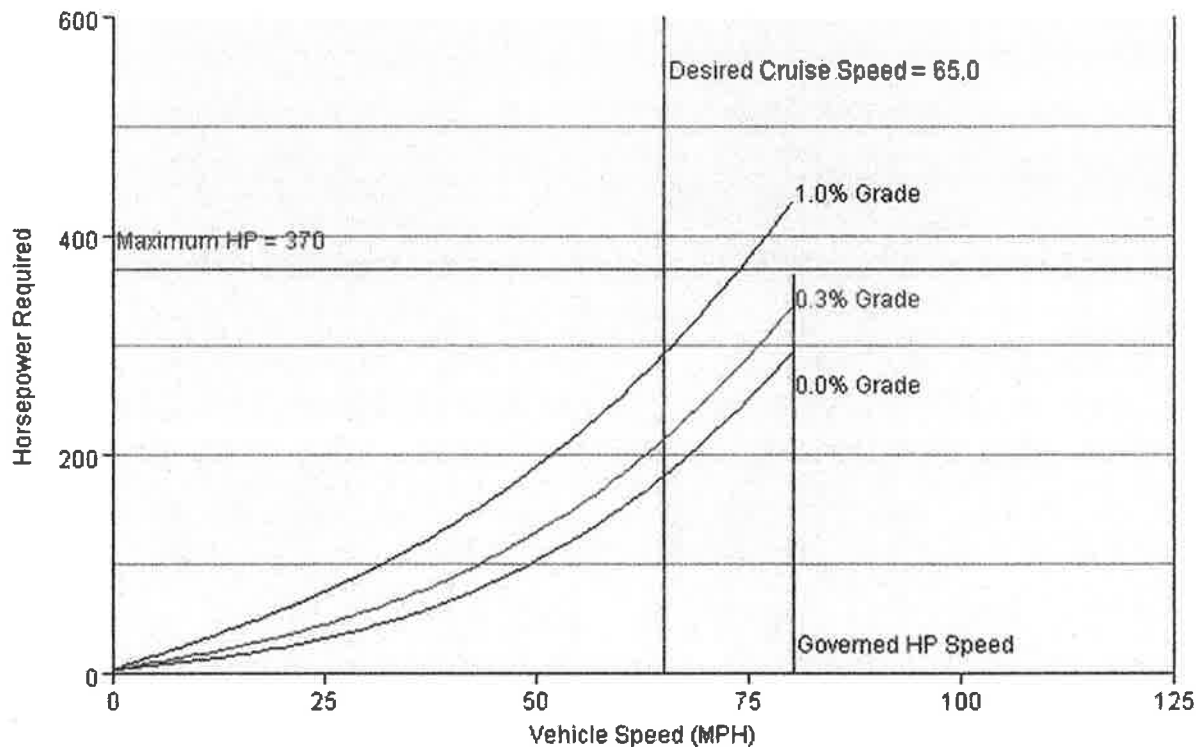
Model..... 114SD
 Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Frame Rails (546)..... 1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI(546)
 Web Height (in)..... 11.125
 Flange Thickness (in)..... 0.4375
 Rear Suspension (622)..... HENDRICKSON RT463 @46,000# REAR SUSPENSION
 Rear Suspension Ride Height (621)..... HENDRICKSON RT/RTE - 6.00" SADDLE
 Axle C/L to Bottom of Frame (in)..... 11.259
 Rear Tires (094)..... MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)
 Unladen Radius (in)..... 20.85
 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

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SPEEDABILITY



VEHICLE SPECIFICATIONS SUMMARY - SPEEDABILITY

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph).....	65.0
Expected Front Axle(s) Load (lbs).....	20000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs).....	40000.0

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Expected Tag Axle(s) Load (lbs) 0.0
Expected GVW (lbs) 60000
Expected GCW (lbs) 0.0
Engine (101) CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
 Governed RPM 2100
 HP at Governed RPM 365
 RPM at Max HP 1900
 Max HP 370
 HP at Governed RPM (High Torque) 365
 RPM at Max HP (High Torque) 1900
 Max HP (High Torque) 370
 Multi-torque NO
Transmission (342) ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Rear Axle (420) RT-46-164 46,000# R-SERIES 78 INCH WIDE TRACK TANDEM REAR AXLE
 Number of Speeds 1
 Rear Axle Gear Ratio(s) 4.89 REAR AXLE RATIO
Rear Tires (094) MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)
 Revolutions per Mile 494
 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

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TABLE SUMMARY - SPEEDABILITY

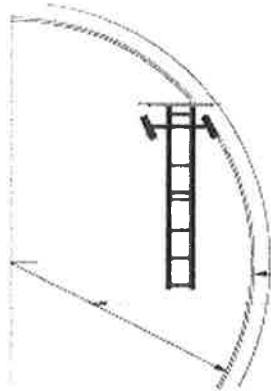
Top Gear Speedability	At Max Power Speed	At Desired Cruise Speed
Top Gear Vehicle Speed (mph)	72.6	55.0
Engine RPM	1900	1701
Gross Power Available (HP)	370	N/A
Power (HP) Required for:		
Level Road	234	182
0.3% Grade	271	215
1.0% Grade	358	293
*Blue background represents value input by user.		

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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)	110.3	+/- 3.0
Curb to Curb Diameter (ft)	104.9	+/- 3.0
Turning Radius (ft)	51.7	+/- 1.5

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

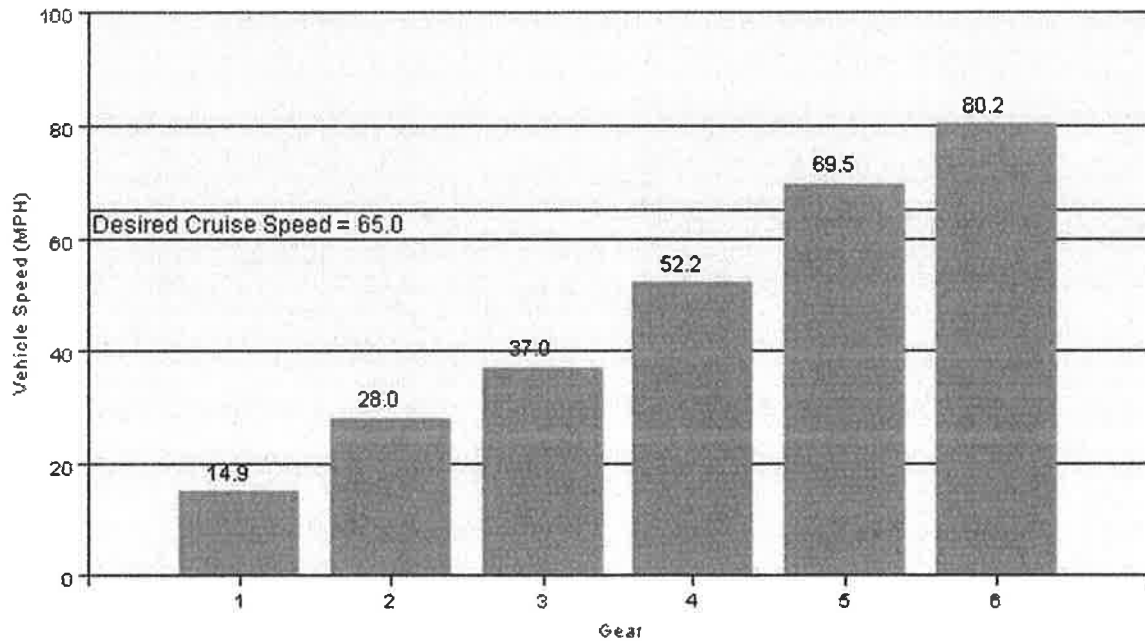
Model.....114SD
Cab Size (829).....114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Wheelbase (545).....6975MM (275 INCH) WHEELBASE
Front Tires (093).....MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES
Width (in).....17.7
Front Axle (400).....MFS-20-133A 20,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE
Kingpin Intersection (in).....71
Bumper (556).....OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203
Width (in).....96
Bumper Miter to Front Axle (in).....73.394
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).....RT-46-164 46,000# R-SERIES 78 INCH WIDE TRACK TANDEM REAR AXLE
Axle Spacing (624).....54 INCH AXLE SPACING

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OPERATING SPEED



Rear Axle Ratio = 4.89

Engine RPM = 2100

VEHICLE SPECIFICATIONS SUMMARY - OPERATING SPEED

Model.....	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Top Speed (mph).....	80.2
Engine RPM.....	2100.0
Desired Cruise Speed (mph).....	65.0
Engine (101).....	CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM

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Governed RPM2100
 Transmission (342)ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
 Rear Axle (420)RT-46-164 46,000# R-SERIES 78 INCH WIDE TRACK TANDEM REAR AXLE
 Number of Speeds1
 Rear Axle Gear Ratio(s)4.89 REAR AXLE RATIO
 Rear Tires (094)MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)
 Revolutions per Mile494
 Auxiliary Transmission (352)NO AUXILIARY TRANSMISSION
 High Gear RatioN/A
 Low Gear RatioN/A
 Transfer Case (373)NO TRANSFER CASE
 High Gear RatioN/A
 Low Gear RatioN/A

TABLE SUMMARY - OPERATING SPEED

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)
1	3.49	17.07	14.9
2	1.86	9.10	28.0
3	1.41	6.89	37.0
4	1.00	4.89	52.2
5	0.75	3.67	69.5
6	0.65	3.18	80.2
Desired Cruise Speed (mph)			65.0
Engine RPM			2099
Rear Axle Ratio			4.89

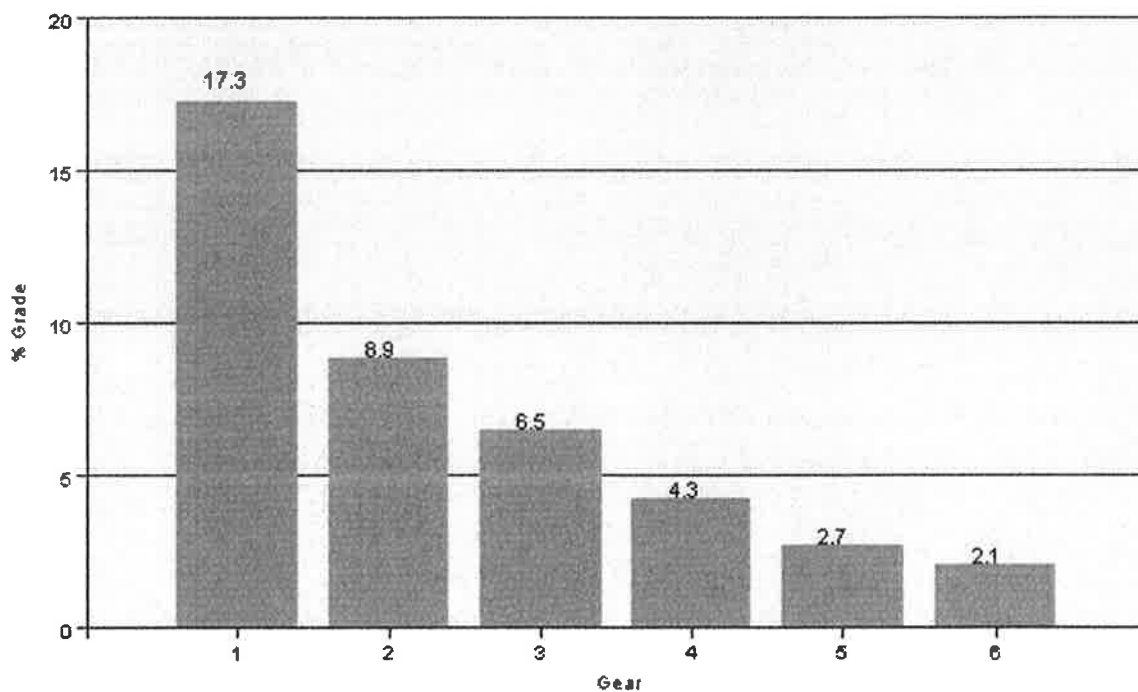
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GRADEABILITY



Desired Gradeability at Peak Torque = 0.5

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VEHICLE SPECIFICATIONS SUMMARY - GRADEABILITY

Model..... 114SD
Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Gradeability at Peak Torque (%)..... 0.5
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)..... 40000.0
Expected Tag Axle(s) Load (lbs)..... 0.0
Expected GVW (lbs)..... 60000
Expected GCW (lbs)..... 0.0
Engine (101)..... CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
 Peak Torque (lbs-ft)..... 1250
 RPM at Peak Torque..... 1400
 Peak Torque (Multi-torque High) (lbs-ft)..... 1250
 RPM at Peak Torque (Multi-torque High)..... 1400
 Multi-torque..... NO
Transmission (342)..... ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Rear Axle (420)..... RT-46-164 46,000# R-SERIES 78 INCH WIDE TRACK TANDEM REAR AXLE
 Number of Speeds..... 1
 Rear Axle Gear Ratio(s)..... 4.89 REAR AXLE RATIO
Rear Tires (094)..... MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)
 Revolutions per Mile..... 494
 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

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TABLE SUMMARY - GRADEABILITY

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	3.49	17.07	10.0	275.4	17.3
2	1.86	9.10	18.7	265.9	8.9
3	1.41	6.89	24.7	257.3	6.5
4	1.00	4.89	34.8	237.3	4.3
5	0.75	3.67	46.4	204.0	2.7
6	0.65	3.18	53.5	176.6	2.1
Desired Gradeability at Peak Torque			0.5		
Rear Axle Ratio			4.89		
Gross HP Available at Peak Torque			333		
RPM at Peak Torque			1400		
*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	3.49	17.07	12.1	292.5	15.1
2	1.86	9.10	22.7	279.4	7.7
3	1.41	6.89	30.0	266.9	5.6
4	1.00	4.89	42.3	236.4	3.5
5	0.75	3.67	56.3	183.1	2.0
6	0.65	3.18	65.0	138.3	1.3
Desired Gradeability at Cruise Speed			0.3		
Desired Cruise Speed			65.0		
Rear Axle Ratio			4.89		
Gross HP Available at Cruise Speed			369		
RPM at Cruise Speed			1701		
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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545) 6975MM (275 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) NO OUTER FRAME REINFORCEMENT

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	6975MM (275 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	NO OUTER FRAME REINFORCEMENT
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) 6975MM (275 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) 103.654
Frame Side Space RH (in) 244.874
Battery Box (290) BATTERY BOX FRAME MOUNTED
Left-Hand Fuel Tank (204) 110 GALLON/416 LITER ALUMINUM FUEL TANK - LH
Left-Hand Auxiliary Fuel / Oil Tank(200) NO LH AUXILIARY FUEL TANK
Right-Hand Fuel Tank (206) NO RH FUEL TANK
Right-Hand Auxiliary Fuel / Oil 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

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TABLE SUMMARY - FRAME SIDE SPACE

Dimensions (Left Side)	Inches
Max CP - Maximum value of all Cab Protrusions	3.0
Bumper to chassis zero dimension	24.0
First front axle to chassis zero dimension	25.4
Bumper to Centerline of Front Axle (BA)	49.4
Wheelbase (WB)	274.6
Frame Overhang (OH)	70.0
Overall Length (OAL)	393.9
Length of Front Tire Unladen Radius (UR)	22.2
Length of Rear Tire Unladen Radius (UR)	20.9
Length Rear Axle Spacing factor	54.0
Pusher Axle Spacing	0.0
Length of Pusher Tire Unladen Radius (UR)	0.0
Frame Space Left Side	103.7
Side Step Left Side	0.0
Exhaust Left Side	0.0
Urea Tank Left Side	13.6
Battery Box Left Side	15.7
Fuel Tank Left Side	53.5
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	3.0
Bumper to chassis zero dimension	24.0
First front axle to chassis zero dimension	25.4
Bumper to Centerline of Front Axle (BA)	49.4
Wheelbase (WB)	274.6
Frame Overhang (OH)	70.0
Overall Length (OAL)	393.9
Length of Front Tire Unladen Radius (UR)	22.2
Length of Rear Tire Unladen Radius (UR)	20.9
Length Rear Axle Spacing factor	54.0
Pusher Axle Spacing	0.0
Length of Pusher Tire Unladen Radius (UR)	0.0
Frame Space Right Side	244.9
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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