

**Sanitary
Equipment
Co., Inc.**

SALES PARTS SERVICE

DO IT RIGHT THE FIRST TIME

Committed to delivering equipment
that meets immediate needs
and exceeds expectations
for years to come.

INDUSTRY LEADING EQUIPMENT



SHOP OEM PARTS AT SANITARYEQUIPMENT.COM

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Sanitary Equipment Co, Inc.
PO Box 26006
West Haven, CT 06516

Model Number - V PD4212HEN/1300 (827 at 18") L H A

Standard Equipment Includes:

Vacuum System (as specified by Model Number)
Vacuum Drive: Hydrostatic via transfer case
1/4" Corten Steel Debris Tank - (size as specified by model number)
Full opening rear door
Hydraulic rear door locks, with door grabber with safety latch
5" Butterfly valve with 10' lay flat hose
Debris tank Dumping: minimum 50 deg., hydraulic scissors lift - power up/power down
Cross-linked polyethylene water tank
Automatic Vacuum Breaker and overfill protection
8" vacuum intake hose
Boom travel tie down
4 Way hydraulic boom with 270 deg. Rotation and joystick controls
Front mounted 600' capacity (1" hose)/hydraulic fixed hose reel
Water pump drive: Hydrostatic drive
Manual hose rewind guide
Hose guide (Tiger Tail)
30" leader hose
20 gpm at 750 psi wash down handgun with 25' of hose and nozzle
Sealed and locking steel toolbox(es) {as indicated by model number}

1) each sanitary and penetrator nozzle
 20.5' aluminum intake pipe (1-3', 1-5', 1-6', and 1-6.5' nozzle)
 ICC lighting
 PPG Ambershield zinc primed, PPG Delfleet single stage polyurethane paint, and PPG Ambershield textured black paint
 12-month standard warranty - see certificate for details
 5# Fire Extinguisher
 Set of Triangles

Model	PD4212HEN/1300 (827 at 18")
Blower	Hydrostatic Drive
Boom	10' Aluminum Telescoping Boom with Pendant Control Station
Hose Reel	Front Mounted, Articulating to Drivers Side, 600-foot (1 inch) Capacity (Std Pivot)
Jet Rodder Hose	500' x 1" Jet Rodder Hose
Water System	80GPM 2500 PSI

Debris Body Options

Qty Description

- 1 6" Knife Valve, Lower Rear Door Mounted with Cam-Lock (Drain hose NOT included)
- 1 A Flat Style Rear Door ilo Dome Style Door Including Hydraulic Opener will be Provided
- 1 Rear splash guard (2 - 10 O'clock) - tank mounted
- 1 Stainless Steel Ball on Debris Body Level Indicator

Water System Options

Qty Description

- 1 1/4 turn ball valve water drain (cannot choose both 2-1/2" gate valve and 1/4 turn ball valve, only choose one)
- 1 50' Capacity Retractable Handgun Hose Reel
- 1 Air Purge System
- 1 Artic Winter Recirculating System Rodder Hose includes plumbing to upper water tanks.
- 1 Debris Body "Power Flush" System, 8 jets
Hydro excavation Package Includes: 50-foot handgun hose reel with 1/2" hose, 72" 1/2" schedule 80 lance with single forward spray nozzle, Storage tubes for lances, Heavy duty unloader valve, Main control ball valve, Variable flow valve
- 1 Pre-Tank Water Filter (Y-type)
- 1 Water Pump Remote Oil Drain
- 1 Winter Recirculating connection for high pressure circuit.

Hose Reel Options

Qty Description

- 1 Hose Footage Counter (Curb Side)

Misc. Machine Options

Qty Description

- 1 Behind Cab Boom Support Chassis frame mounted Boom Cradle Assembly with Bumper mounted boom docking assembly
- 1 Cone Storage Rack - MUST SELECT PLACEMENT BELOW

- 1 Cone Storage Rack Placement - Best Location - Vac-Con to select
- 1 Long Handle Storage Placement - Rear of Mainframe
- 1 Long Handle Storage/PVC (2) - MUST SELECT LOCATION BELOW
- 1 Rear Mounted Tow Hooks
- 1 Remote Boom Grease Zerk Assembly (Ground Level - includes water pump drive) - If Applicable
- 1 Remote Debris Tank Grease Assembly (Ground Level)

Lighting Options

Qty Description

- 1 Handheld Spotlight - LED with 50' Retractable Cord
- 1 LED 4 Strokes - (2) front bumper / (2) rear bumper - Whelen 50A03ZCR - Amber
- 1 LED Arrow stick - Whelen TAM85 Traffic Advisor
- 1 LED Boom Mounted Flood Lights with Limb Guard - Whelen NP6BB Work light
- 1 LED Flood Light - Level Wind Guide - Whelen NP6BB Work light
- 1 LED Lighting for Toolbox
- 1 LED Midbody Flood Lights with guards - Whelen NP6BB (Driver side and Curbside)
- 1 LED Rear Mounted Flood Lights with Limb Guard - Whelen NP6BB Work light
- 1 LED strobe with Limb Guard, Rear Debris Tank Mounted - Whelen L31HAF LED Beacon with Whelen BGH Branch Guard
- 1 Midbody LED Strokes - Frame Mounted - Whelen 50A03ZCR - Amber
- 1 Mirror Mounted LED Beacon/Strobe Light with Limb Guard - Whelen L31HAF LED Beacon with Whelen BGH Branch Guard

Electrical Options

Qty Description

- 1 Low Water Alarm with Light
- 1 Rear Camera Placement
- Remote Control (Wireless): Boom, Vacuum Breaker, Throttle & Debris Body (includes Hi-Dump, if applicable). Does not include remote cable pendant controls for boom or hi dump.
- 1 Traffic Camera with Color Monitor

Water System Accessories

Qty Description

- 1 711-30906 A 48" Extension for 711-53686 high-pressure hand wand
- 1 Additional Water Tank Sight Gauge (Drivers Side)
- 1 Cam-locks for Rear Drain Hose
- 1 Handgun Assembly (2) Handle with Adjustable Spray

Misc. Accessories

Qty Description

- 1 Anti-Sail Mud Flaps (rear)
- 1 GIANT 80@2500 Water System
- 1 Lay flat Hose holder for STD decant

Leader Hose

Qty Description

- 1 1" x 20' Length Leader Hose

Pipe Storage Racks

Qty Description

- 1 Lazy Susan Pipe Rack (Holds 5 Pipes)

Tool/Storage Boxes

Qty Description

- 1 (2) 24x18x18 Aluminum Toolbox (Extended Frame Units w/o Rear Tanks)
- 1 Aluminum Storage Box 16" X 42" X 96"(Upgrade) Behind Cab in lieu of Standard Steel

Vacuum Tubing

Qty Description

- 1 5' x 8" Aluminum Pipe Extension
- 1 8" Quick Clamp, spare, 680-0015

Paint

Qty Description

- 1 Optional Striping Package - Black 692-5204-03
- 1 Paint Module: Single-Stage Polyurethane Elite White (white is standard unless otherwise specified. PPG code: 940813)

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

	Description	Weight Front	Weight Rear
Price Level			
	WST 47X/49X PRL-27X (EFF:MY24 ORDERS)		
Data Version			
	SPECPRO21 DATA RELEASE VER 016		
Vehicle Configuration			
	WESTERN STAR 47X	9,050	6,525
	2024 MODEL YEAR SPECIFIED		
	SET FORWARD AXLE - TRUCK	-480	480
	STRAIGHT TRUCK PROVISION, NON-TOWING		
	LH PRIMARY STEERING LOCATION		
General Service			
	TRUCK CONFIGURATION		
	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
	UTILITY/REPAIR/MAINTENANCE SERVICE		
	GOVERNMENT BUSINESS SEGMENT		
	LIQUID BULK COMMODITY		
	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
	MAXIMUM 8% EXPECTED GRADE		
	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
	WESTERN STAR VOCATIONAL WARRANTY		
	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		
	EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		
	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 66000.0 lbs		

	Description	Weight Front	Weight Rear
Truck Service			
	SEWER/INDUSTRIAL VACUUM BODY		
	VAC CON		
Engine			
	DETROIT DD13 GEN 5 12.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB/FT @ 975 RPM		
Electronic Parameters			
	70 MPH ROAD SPEED LIMIT		
	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
	FLEET MANAGEMENT - DAILY ENGINE USAGE ENABLED		
	PTO MODE ENGINE RPM LIMIT - 1200 RPM		
	PTO MODE THROTTLE OVERRIDE - LIMIT TO 1400 RPM		
	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED		
	PTO RPM CONTROL WITH STEERING WHEEL SWITCHES		
	PTO MODE COOLING FAN ENABLE		
	PTO MODE CANCEL VEHICLE SPEED - 3 MPH		
	PTO MODE RPM INCREMENT - 25 RPM		
	PTO GOVERNOR RAMP RATE - 200 RPM PER SECOND		
	FUEL DOSING OF AFTERTREATMENT ENABLED IN PTO MODE-CLEANS HYDROCARBONS AT HIGH TEMPERATURES ONLY		
	ONE CLUSTER SELECTABLE PTO GOVERNOR ENGINE SPEED PARAMETER WITH ONE OPERATOR SET SPEED		
	PTO SPEED 1 SETTING - 1200 RPM		
	VOCATIONAL SPEC FOR VACUUM TRUCKS		
	SOFT CRUISE CONTROL ENABLED		
	PTO MINIMUM RPM - 750		
	MAINTENANCE SYSTEM WITH NO POP-UPS AND NO MENU IN CLUSTER		
	PTO 1, DASH SWITCH, STATIONARY OPERATION		
Engine Equipment			
	2010 EPA/CARB/GHG21 CONFIGURATION		

Description	Weight Front	Weight Rear
2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)		
STANDARD OIL PAN		
OIL FILL AND DIPSTICK LOCATED FOR ENHANCED SERVICEABILITY		
SIDE OF HOOD AIR INTAKE WITH ENGINE MOUNTED AIR CLEANER		
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE	-10	
(3) DTNA GENUINE, FLOODED STARTING, MIN 3000CCA, 555RC, THREADED STUD BATTERIES	-10	
BATTERY BOX WITH ALUMINUM COVER MOUNTED SHORT SIDE TO RAIL	-50	10
SINGLE BATTERY BOX FRAME MOUNTED RH SIDE BACK OF CAB		
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
UNPOLISHED ALUMINUM WST BATTERY BOX COVER		
AUXILIARY POWER NET DISTRIBUTION BLOCK FOR BODY BUILDER USE	5	
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	2	
POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
BW MODEL FE-921 19.0 CFM SINGLE CYLINDER AIR COMPRESSOR WITH SAFETY VALVE		
ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
JACOBS COMPRESSION BRAKE, STOP LAMPS ACTIVATE AT 70% RETARDATION		
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE		
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER AND DASH MOUNTED INHIBIT SWITCH		
90 DEG STACK AND B-PILLAR PIPE WITH MINIMUM STACK PROTRUSION ABOVE CAB		

Description	Weight Front	Weight Rear
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
13 GALLON DIESEL EXHAUST FLUID TANK	9	3
UNPOLISHED ALUMINUM WST DIESEL EXHAUST FLUID TANK COVER		
LH HEAVY DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
STANDARD DIESEL EXHAUST FLUID TANK CAP		
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
ELECTRONICALLY CONTROLLED VARIABLE SPEED VISCOUS FAN DRIVE		
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
DETROIT FUEL/WATER SEPARATOR WITH BYPASS AND 12 VOLT PREHEATER	10	
DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR		
FULL FLOW OIL FILTER		
1400 SQUARE INCH VOCATIONAL RADIATOR WITH PROTECTION PACKAGE	20	
ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE		
LOWER RADIATOR GUARD		
1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20	
MITSUBISHI 12V MOD 3.175-DP60 STARTER WITH INTEGRATED MAGNETIC SWITCH		

Transmission

ALLISON 4500 RDS AUTOMATIC TRANSMISSION
WITH PTO PROVISION

Transmission Equipment

ALLISON VOCATIONAL PACKAGE 223 -
AVAILABLE ON 3000/4000 PRODUCT FAMILIES
WITH VOCATIONAL MODELS RDS, HS, MH AND
TRV

ALLISON VOCATIONAL RATING FOR ON/OFF
HIGHWAY APPLICATIONS AVAILABLE WITH ALL
PRODUCT FAMILIES

Description	Weight Front	Weight Rear
PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS QUICKFIT BODY LIGHTING CONNECTOR AT END OF FRAME, WITH CAP ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR CUSTOMER INSTALLED MUNCIE CS10 SERIES PTO PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN HEAVY DUTY ELECTRONIC TRANSMISSION SHIFT CONTROL, COLUMN MOUNTED WATER TO OIL TRANSMISSION COOLER TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		
Front Axle and Equipment		
DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	190	

Description	Weight Front	Weight Rear
CONMET PRESET PLUS PREMIUM IRON FRONT HUBS	20	
MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10	
NON-ASBESTOS FRONT BRAKE LINING		
CONMET CAST IRON FRONT BRAKE DRUMS		
FRONT BRAKE DUST SHIELDS	5	
FRONT OIL SEALS		
VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
DUAL HIGH CAPACITY POWER STEERING GEARS, BENDIX 20-23K	80	
4 QUART POWER STEERING RESERVOIR	5	
MOUNTED ABOVE FRONT CLOSING CROSSMEMBER		
OIL/AIR POWER STEERING COOLER	5	
CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front Suspension		
20,000# FLAT LEAF FRONT SUSPENSION	250	
THREADED SPRING PINS AND BUSHINGS - FRONT SUSPENSION		
FRONT SHOCK ABSORBERS		
Rear Axle and Equipment		
RT-46-160 46,000# R-SERIES TANDEM REAR AXLE		470
CONMET PRESET PLUS PREMIUM IRON REAR HUBS		60
4.89 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
RPL25 MERITOR MAIN DRIVELINE	40	40
RPL20 MERITOR INTERAXLE DRIVELINE		
(1) INTERAXLE LOCK VALVE FOR TANDEM DRIVE AXLES		
INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH ENGAGE <30MPH;DISENGAGE>50MPH		

Description	Weight Front	Weight Rear
MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES NON-ASBESTOS REAR BRAKE LINING STANDARD BRAKE CHAMBER LOCATION CONMET CAST IRON REAR BRAKE DRUMS REAR BRAKE DUST SHIELDS REAR OIL SEALS BENDIX EVERSURE LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS HALDEX AUTOMATIC REAR SLACK ADJUSTERS CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE STANDARD REAR AXLE BREATHER(S)		10
Rear Suspension		
HENDRICKSON HAULMAAX EX 46,000# REAR SUSPENSION 10.8 INCH NOMINAL RIDE HEIGHT (490MM GLOBAL REFERENCE HEIGHT) 54 INCH AXLE SPACING HENDRICKSON HN, HAULMAAX AND ULTIMAAX SERIES STEEL BEAMS WITH BAR PIN FORE/AFT AND TRANSVERSE CONTROL RODS DOUBLE REBOUND STRAP - INBOARD AND OUTBOARD NO REAR SHOCK ABSORBERS		115 13 -30
Brake System		
WABCO 4S/4M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF SWITCH REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE BW AD-9SI BRAKE LINE AIR DRYER WITH HEATER BENDIX OIL COALESCING FILTER FOR AIR DRYER AIR DRYER MOUNTED OUTBOARD ON RH RAIL (1) 12 INCH DIAMETER STEEL AIR TANK MOUNTED ABOVE AND ACROSS FRAME RAILS WITH 10FT EXTRA COILED AIR LINES, 20 INCH MAX BOC PROTRUSION		

Description	Weight Front	Weight Rear
PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
Wheelbase & Frame		
6640MM (261 INCH) WHEELBASE, SFA ONLY		
13.0MM X 87.0MM X 311.0MM STEEL FRAME (0.51X3.43X12.24 INCH) 120 KSI	760	360
0.236 INCH (6.00MM) C-CHANNEL INNER FRAME REINFORCEMENT	240	560
2300MM (91 INCH) REAR FRAME OVERHANG		
FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-110	410
12 INCH INTEGRAL FRONT FRAME EXTENSION	60	
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 179.92 in		
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 176.92 in		
CALC'D FRAME LENGTH - OVERALL : 392.62 in		
FRAME HEIGHT TOP FRONT UNLADEN : 45.05 in		
FRAME HEIGHT TOP FRONT LADEN : 41.7 in		
FRAME HEIGHT TOP REAR UNLADEN : 44.6 in		
FRAME HEIGHT TOP REAR LADEN : 42.06 in		
CALCULATED FRAME SPACE LH SIDE : 112.6 in		
CALCULATED FRAME SPACE RH SIDE : 146.04 in		
SQUARE END OF FRAME		
STANDARD WEIGHT ENGINE CROSSMEMBER		
STANDARD CROSSMEMBER BACK OF TRANSMISSION		
STANDARD MIDSHIP #1 CROSSMEMBER(S)	10	10
HEAVY DUTY REAR CROSSMEMBER		70
STANDARD SUSPENSION CROSSMEMBER		20
STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		
Chassis Equipment		
UNPOLISHED ALUMINUM WST EQUIPMENT COVERS		
CLEAR FRAME SPACE REQUESTED		
1 MID CHASSIS COMPONENT LOCATION REQUEST		
ALL BOC COMPONENTS NEED TO BE WITHIN 20 INCHES OF BOC, CLEAR RAILS OUTBOARD AND BELOW FROM THERE		

Description	Weight Front	Weight Rear
TEMPORARY STEEL BUMPER	-40	
NO FRONT TOW HOOKS	-15	
GRADE 8 THREADED HEX HEADED FRAME FASTENERS INSTALLED WITH BOLT HEADS ON OUTSIDE OF FRAME		
EXTERIOR HARNESES WRAPPED IN ABRASION TAPE		
UPPER/LOWER TEM LH MID-CHASSIS ROUTING & CLIPPING BRACKETS		
UPPER/LOWER TEM RH MID-CHASSIS ROUTING & CLIPPING BRACKETS		
DRILLING PREP FOR VAC CON PER DRAWING #6 70-30226, REVISION C, 04/20/17		
Fuel Tanks		
100 GALLON/378 LITER ALUMINUM FUEL TANK - LH	10	10
25 INCH DIAMETER FUEL TANK(S) PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
FUEL TANK(S) FORWARD		
PLAIN STEP FINISH		
FUEL TANK CAP(S)		
EQUIFLO INBOARD FUEL SYSTEM		
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires		
CONTINENTAL HAC3 425/65R22.5 20 PLY RADIAL FRONT TIRES	196	
CONTINENTAL HSC3 11R22.5 14 PLY RADIAL REAR TIRES		88
Wheels		
ALCOA LVL ONE 82462X 22.5X12.25 10-HUB PILOT 4.68 INSET 10-HAND ALUMINUM DISC FRONT WHEELS	-8	
ALCOA LVL ONE 88267X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		
FRONT WHEEL MOUNTING NUTS		
REAR WHEEL MOUNTING NUTS		
Cab Exterior		
111.6 INCH BBC CONVENTIONAL ALUMINUM CAB		

Description	Weight Front	Weight Rear
STAINLESS STEEL CAB ACCENT MOLDING		
CLEAR DASH FLEX PANEL FOR CUSTOMER/TEM INSTALLED DEVICE		
FRONT FENDERS		
BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10	
SAFETY YELLOW INTERIOR GRAB HANDLES WITH ADDED LOWER LH AND RH A PILLAR GRAB HANDLES AND LH AND RH EXTERIOR NON-SLIP GRAB HANLDES		
BRIGHT HOOD MOUNTED AIR INTAKE GRILLE, BLACK SCREEN, WITH LED ACCENT LIGHTS		
X-SERIES STEEL REINFORCED ALUMINUM CAB		
X-SERIES VOCATIONAL HOOD WITH ACCESS HATCH	10	
HOOD OPENING ASSIST WITH LOCKING STRUT		
WESTERN STAR NAMEPLATES		
DUAL ROUND AIR HORNS, SINGLE BASE, MOUNTED UNDER CAB		
DUAL ELECTRIC HORNS		
REAR LICENSE PLATE MOUNT END OF FRAME		
LED LOW BEAM AND HIGH BEAM HEADLIGHTS		
ROOF MOUNTED LED MARKER LIGHTS		
DAYTIME RUNNING LIGHTS TO ACTIVATE MARKER, CLEARANCE AND TAIL LIGHTS		
GROTE #54332 LED STOP/TAIL/TURN LIGHTS GROMMET MOUNTED WITH SEPERATE GROTE #62401 LED BACKUP LIGHTS		
LED SIDE TURN SIGNAL		
C-BAR MIRROR SYSTEM WITH DUAL HEATED MIRRORS WITH INTEGRAL HEATED CONVEX, DUAL REMOTE, STAINLESS STEEL BACK COVER, AND BLACK C-BAR		
102 INCH EQUIPMENT WIDTH		
LH AND RH CONVEX MIRRORS INTEGRAL WITH PRIMARY MIRRORS		
RH DOWN VIEW MIRROR		
STANDARD SIDE/REAR REFLECTORS		
UNPOLISHED ALUMINUM WST AFTERTREATMENT SYSTEM COVER		
PARK BRAKE REMINDER WARNING SYSTEM; 2- STAGE ELEC HORN & HAZARD LAMP ALERT CTRL BY PART FILTER REGEN REQ'D STATUS		

Description	Weight Front	Weight Rear
HIGH VISIBILITY 3-PIECE SOLAR TINTED REAR WINDOW, (1) 31 INCH X 20 INCH SOLAR TINTED REAR WINDOW, (2) 9 INCH X 20 INCH 1-PIECE ROPED-IN SOLAR GREEN GLASS WINDSHIELD 8 LITER (2 GAL) WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITH FLUID LEVEL INDICATOR	20	
Cab Interior		
X-SERIES BASE INTERIOR TRIM LEVEL PACKAGE CHARCOAL BLACK VINYL BASE LEVEL INTERIOR CARBON WITH BASE BLACK ACCENT BLACK MATS (1) DASH MOUNTED POWER OUTLETS AND (1) USB CHARGING OUTPUT FORWARD ROOF MOUNTED CONSOLE LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS (2) COAT HOOKS ON BACKWALL OF CAB DIGITAL ALARM CLOCK IN DRIVER DISPLAY STANDARD HEATER PLUMBING RADIATOR MOUNTED AIR CONDITIONER CONDENSER STANDARD INSULATION STANDARD LED CAB LIGHTING REMOTE KEYLESS ENTRY AND 2 TRANSMITTERS DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME KEY QUANTITY OF 4 LH AND RH ELECTRIC DOOR LOCKS WITH AUTO UNLOCK FEATURE WHEN DOOR IS SET FROM OPEN TO CLOSED POSITION BLACK DOOR HANDLES BASIC 2.0 HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 1 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION AND TILT BASIC 2.0 HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 1 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION AND TILT	40	15

Description	Weight Front	Weight Rear
NO SEAT ARMREST		
BLACK VINYL DRIVER SEAT COVER WITH NO LOGO		
BLACK VINYL PASSENGER SEAT COVER WITH NO LOGO		
3 POINT HIGH VISIBILITY ORANGE ADJUSTABLE D-RING RETRACTOR DRIVER AND FIXED D-RING RETRACTOR PASSENGER SEAT BELTS		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES		
DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

STANDARD FOOT PEDAL SYSTEM		
ELECTRONIC ACCELERATOR CONTROL		
ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK		
BLACK GAUGE BEZELS		
VOCATIONAL INSTRUMENT PANEL WITH CUSTOMER SPECIFIED CUSTOM SWITCH AND GAUGE LAYOUT		
DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE		
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
87 DB TO 112 DB SELF-ADJUSTING BACKUP ALARM		3
ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES		
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
MANUAL REMOTE ENGINE STOP/START WITH PTO RE-ENGAGE		
AUXILIARY POWER DISTRIBUTION MODULE FOR TEM USE, AUXILIARY EVAUULT MOUNTED, CIRCUIT BREAKER PROTECTED		
PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY		
DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY		

Description	Weight Front	Weight Rear
HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
2 INCH ELECTRIC FUEL GAUGE		
FUEL FILTER RESTRICTION INDICATOR		
ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE		
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
ENGINE OIL TEMPERATURE GAUGE		
ELECTRIC ENGINE OIL PRESSURE GAUGE		
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER		
ENGINE, TRIP AND PTO HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE		
NO OBSTACLE DETECTION SYSTEM		
NO DR ASSIST SYSTEM		
NO VEHICLE STABILITY ADVISOR OR CONTROL		
NO LANE DEPARTURE WARNING SYSTEM		
QUICKFIT PROGRAMMABLE INTERFACE MODULE + (4) 20 AMP FUSED RELAYS	10	
(2) TMC RP1226 ACCESSORY CONNECTORS: (1) LOCATED BEHIND PASSENGER SIDE REMOVABLE DASH PANEL (1) CENTER OF OVERHEAD CONSOLE		
AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939		
DASH MOUNTED RADIO		
STANDARD SPEAKER SYSTEM		
AM/FM ANTENNA MOUNTED ON RH SIDE MIRROR		
NO SPEAKER/LEAD FOR 2-WAY RADIO		
NO CB ANTENNA, BRACKET OR LEAD		
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
ELECTRONIC 2500 RPM TACHOMETER		

	Description	Weight Front	Weight Rear
	DETROIT CONNECT PLATFORM HARDWARE		
	5 YEARS DETROIT CONNECT BASE PACKAGE (FEATURES VARY BY MODEL) DETROIT CONNECT PLATFORM		
	REMOTE ENGINE STOP WIRED TO CUSTOMER INTERFACE CONNECTOR		
	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS AND SERVICE BRAKES		
	NO TURBO AIR PRESSURE GAUGE		
	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS		
	ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR		
	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT		
	PROGRAMMABLE SWITCHES/INDICATORS LOCATED IN AUXILIARY PANEL		
	QUICKFIT POWERTRAIN INTERFACE CONNECTOR UNDER CAB WITH CAPS		
	3 EXTRA PROGRAMMABLE SWITCHES/INDICATORS		
	\$A1A0206ZZ,A1B0082ZZ,A1C0083ZZ		
	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) UNDER CAB WITH CAP		
Design			
	PAINT: ONE SOLID COLOR		
Color			
	CAB COLOR A: L0006EY WHITE ELITE EY		
	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
	BUMPER PAINT: L0001EY BLACK ELITE EY		
Certification / Compliance			
	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		

Description	Weight Front	Weight Rear
Secondary Factory Options		
DEALER HAS BEEN ADVISED OF AND ACCEPTED RESPONSIBILITY FOR MODIFICATIONS DUE TO POSSIBLE PTO/CHASSIS INTERFERENCE		

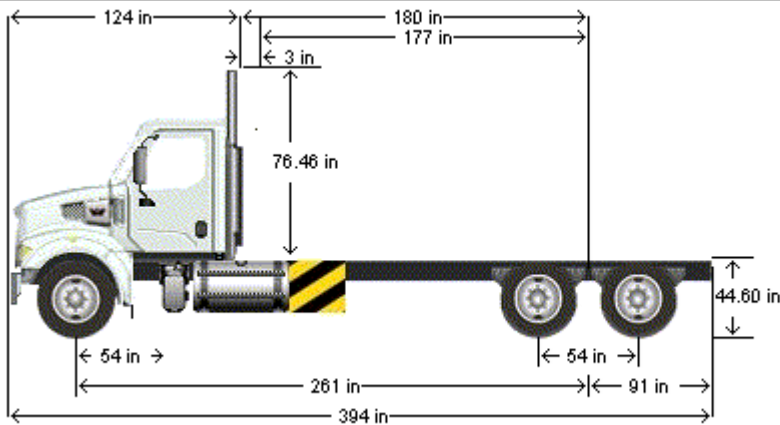
Raw Performance Data		
CFS,LH,OB,#1,START 20" BOC		
CFS,LH,OB,#1, 60" LONG		
CFS,LH,OB,#2,START 80" BOC		
CFS,LH,OB,#2, 48" LONG		
CFS,RH,OB,#1,START 20" BOC		
CFS,RH,OB,#1, 60" LONG		
CFS,RH,OB,#2,START 80" BOC		
CFS,RH,OB,#2, 48" LONG		

TOTAL VEHICLE SUMMARY

Weight Summary			
	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	10366 lbs	9242 lbs	19608 lbs
Total Weight ⁺	10366 lbs	9242 lbs	19608 lbs

Extended Warranty			
TOWING: 2 YEARS/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$750 CAP FEX APPLIES			

D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

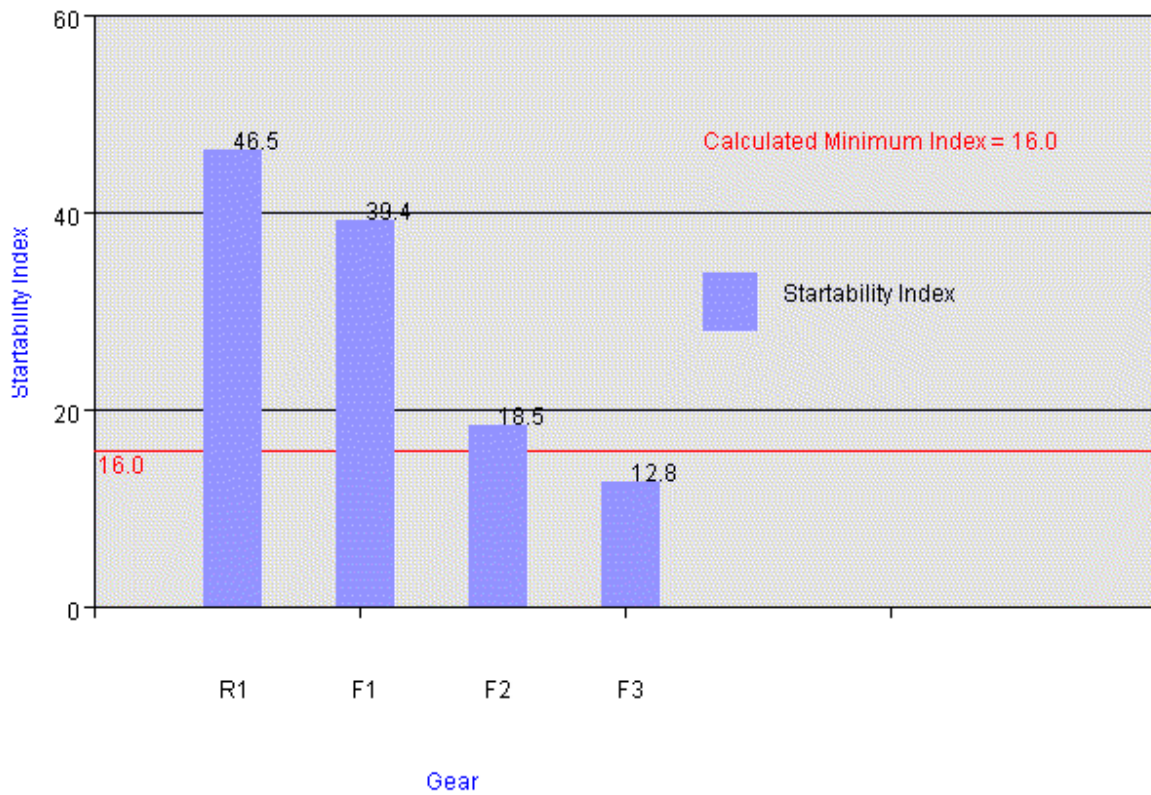
Model	47X
Wheelbase (545)	6640MM (261 INCH) WHEELBASE, SFA ONLY
Rear Frame Overhang (552)	2300MM (91 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in)	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in)	0
Slide Increment (in)	0
Desired Slide Position (in)	0.0
Cab Size (829)	111.6 INCH BBC CONVENTIONAL ALUMINUM 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

Dimensions	Inches
Bumper to Back of Cab (BBC)	123.6
Bumper to Centerline of Front Axle (BA)	54.1
Front Axle to Back of Cab (AC)	81.5
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	179.9
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	176.9
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	270.5
Cab Height (CH)	76.5
Wheelbase (WB)	261.4
Frame Overhang (OH)	90.6
Overall Frame Length	392.6
Overall Length (OAL)	394.1
Rear Axle Spacing	54.0
Unladen Frame Height at Centerline of Rear Axle	44.6

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

STARTABILITY

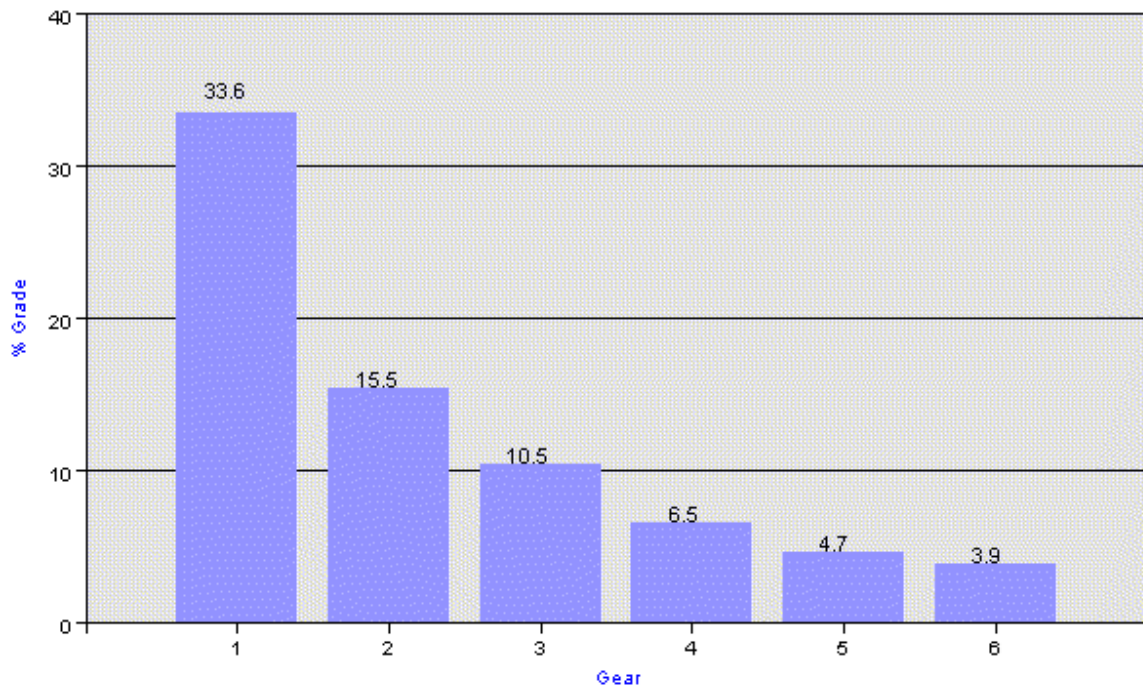


VEHICLE SPECIFICATIONS SUMMARY - STARTABILITY

Model 47X
 Cab Size (829).....111.6 INCH BBC CONVENTIONAL ALUMINUM 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
Engine (101).....DETROIT DD13 GEN 5 12.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB/FT @ 975 RPM	
Torque at Clutch Engagement (lbs-ft)	1180
Transmission (342).....ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	
Gear Ratio: Forward 1	4.7
Gear Ratio: Forward 2	2.21
Gear Ratio: Forward 3	1.53
Gear Ratio: Reverse 1	5.55
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-46-160 46,000# R-SERIES TANDEM REAR AXLE	
Number of Speeds.....	1
Rear Axle Gear Ratio(s).....	4.89 REAR AXLE RATIO
Rear Tires (094)CONTINENTAL HDL2 11R22.5 14 PLY RADIAL REAR TIRES	
Revolutions per Mile	493
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

GRADEABILITY



Desired Gradeability at Peak Torque = 0.5

VEHICLE SPECIFICATIONS SUMMARY - GRADEABILITY

Model 47X
Cab Size (829).....111.6 INCH BBC CONVENTIONAL ALUMINUM 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)	46000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs)	66000
Expected GCW (lbs)	0.0
Engine (101).....	DETROIT DD13 GEN 5 12.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB/FT @ 975 RPM
Peak Torque (lbs-ft)	1850
RPM at Peak Torque	1100
Peak Torque (Multi-torque High) (lbs-ft)	1850
RPM at Peak Torque (Multi-torque High)	1100
Multi-torque.....	NO
Transmission (342).....	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Rear Axle (420)	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)	CONTINENTAL HDL2 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile	493
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

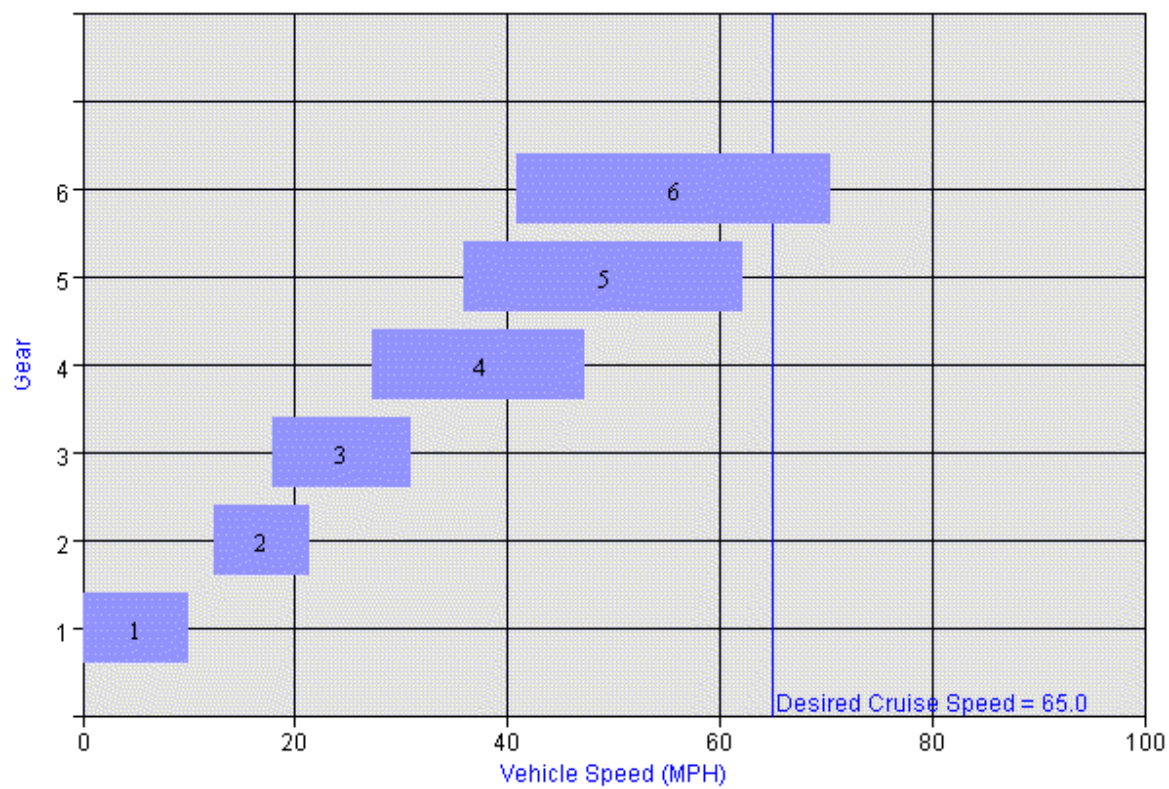
TABLE SUMMARY - GRADEABILITY

Transmission Gear	Transmission Gear Ratio	Overall Gear Ratio	Vehicle Speed (MPH)	HP Available for Grade	Max Grade (%)
1	4.70	22.98	5.8	344.0	33.6
2	2.21	10.81	12.4	337.6	15.5
3	1.53	7.48	17.9	331.0	10.5
4	1.00	4.89	27.4	315.6	6.5
5	0.76	3.72	36.0	296.1	4.7
6	0.67	3.28	40.9	282.4	3.9
Desired Gradeability at Peak Torque			0.5		
Rear Axle Ratio			4.89		
Gross HP Available at Peak Torque			387		
RPM at Peak Torque			1100		
*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	230.7	14.1
2	2.21	10.81	19.7	218.3	6.3
3	1.53	7.48	28.5	203.3	4.1
4	1.00	4.89	43.6	163.6	2.1
5	0.76	3.72	57.3	107.0	1.1
6	0.67	3.28	65.0	64.7	0.6
Desired Gradeability at Cruise Speed			0.3		
Desired Cruise Speed			65.0		
Rear Axle Ratio			4.89		
Gross HP Available at Cruise Speed			297		
RPM at Cruise Speed			1749		
*Blue background represents value input by user.					

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

OPERATING RANGE



VEHICLE SPECIFICATIONS SUMMARY - OPERATING RANGE

Model 47X
Cab Size (829).....111.6 INCH BBC CONVENTIONAL ALUMINUM CAB

Desired Cruise Speed (mph)	65.0
Engine (101)	DETROIT DD13 GEN 5 12.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB/FT @ 975 RPM
RPM at Peak Torque	1100
Governed RPM	1900
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)	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)	CONTINENTAL HDL2 11R22.5 14 PLY RADIAL REAR TIRES
Revolutions per Mile	493

TABLE SUMMARY - OPERATING RANGE

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	10.1
2	2.21	4.89	10.81	12.4	21.4
3	1.53	4.89	7.48	17.9	30.9
4	1.00	4.89	4.89	27.4	47.3
5	0.76	4.89	3.72	36.0	62.2
6	0.67	4.89	3.28	40.9	70.6

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