

Prepared For:

Marion Body Works Inc.
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Reference ID: N/A

Presented By:

PACKER CITY INT'L TRKS
Mark Winkler
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Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.

**Model Profile
2018 7400 SFA 4X4 (SR525)**

APPLICATION:

Fire/Pumper (Emergency)

MISSION:

Requested GVWR: 35000. Calc. GVWR: 35000
Calc. Start / Grade Ability: 29.21% / 3.13% @ 55 MPH
Calc. Geared Speed: 73.8 MPH

DIMENSION:

Wheelbase: 179.00, CA: 60.10, Axle to Frame: 77.00

ENGINE, DIESEL:

{Cummins L9 330} EPA 2017, 330 HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 330 Peak HP (Max)

TRANSMISSION, AUTOMATIC:

{Allison 3000EVS_P} 5th Generation Controls; Close Ratio, 5-Speed; with Overdrive, Includes Oil Level Sensor, with Provision for PTO, Less Retarder, Max. GVW N/A

CLUTCH:

Omit Item (Clutch & Control)

AXLE, FRONT DRIVING:

{Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting

AXLE, REAR, SINGLE:

{Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, Driver Controlled Locking Differential, 200 Wheel Ends Gear Ratio: 4.89

CAB:

Conventional 6-Man Crew Cab

TIRE, FRONT:

(2) 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive

TIRE, REAR:

(4) 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive

SUSPENSION, RR, SPRING, SINGLE:

Vari-Rate; 31,000-lb Capacity, Includes 4500-lb Capacity Multileaf Auxiliary

FRAME REINFORCEMENT:

Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL

PAINT:

Cab schematic 100GM
Location 1: 4014, Yellow (Custom)
Chassis schematic 932GM
Wheel: 4014, Yellow (Custom)

<u>Code</u>	<u>Description</u>
SR52500	Base Chassis, Model 7400 SFA 4X4 with 179.00 Wheelbase, 60.10 CA, and 77.00 Axle to Frame.
1570	TOW HOOK, FRONT (2) Frame Mounted
1CBU	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL
1GBP	FRAME REINFORCEMENT Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
1MDP	BUMPER, FRONT Full Width, Aerodynamic, Polished Stainless Steel; 0.125" Material Thickness
1WDT	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille, with Outer "C" Channel Reinforcement
1WGE	WHEELBASE RANGE 148" (375cm) Through and Including 179" (455cm)
2GAB	AXLE, FRONT DRIVING {Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting
	<u>Notes</u> : Axle Lead Time is 90 Days
3ADC	SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 12,000-lb Capacity; with Shock Absorbers
	<u>Includes</u> : SPRING PINS Rubber Bushings, Maintenance-Free
	<u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications
	<u>Includes</u> : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : DUST SHIELDS, FRONT BRAKE : DUST SHIELDS, REAR BRAKE : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic (with Air Cam Brakes) : SLACK ADJUSTERS, REAR Automatic (with Air Cam Brakes) : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6
	<u>Notes</u> : Rear Axle is Limited to 23,000-lb GAWR with Code 04091 BRAKE SYSTEM, AIR and Standard Rear Air Cam Brakes Regardless of Axle/Suspension Ordered
4732	DRAIN VALVE {Berg} with Pull Chain, for Air Tank
	<u>Includes</u> : DRAIN VALVE Mounted in Wet Tank
4773	BRAKE SHOES, REAR Cast
	<u>Notes</u> : Provides Rear Axle GAWR Up to 26,000-Lb. : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
4AZJ	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel) with Automatic Traction Control

<u>Code</u>	<u>Description</u>
4EBT	AIR DRYER {Bendix AD-IP} with Heater <u>Includes</u> : AIR DRYER LOCATION Outside Left Rail, Back of Cab
4ETD	BRAKE CHAMBERS, FRONT AXLE {MGM} 20 Sqn
4EXU	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Spring Brake
4JCJ	BRAKES, FRONT, AIR CAM S-Cam; 16.5" x 5.0"; Includes 20 Sq. In. Long Stroke Brake Chambers <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
4NDB	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM Capacity
4VGG	AIR DRYER LOCATION Mounted Inside Left Rail, Behind Transfer Case Mounting
5708	STEERING COLUMN Tilting
5CAL	STEERING WHEEL 2-Spoke, 18" Dia., Black
5PSA	STEERING GEAR {Sheppard M100} Power
6DBY	DRIVESHAFT {Dana Spicer} SPL170XL Series in lieu of SPL140
7BES	AFTERTREATMENT COVER Polished Aluminum
7BLC	EXHAUST SYSTEM Single, Horizontal Aftertreatment Device, Frame Mounted Right Side, Under Cab, for Single Horizontal Tail Pipe, Frame Mounted Right Side Back of Cab, for All-Wheel Drive
7SDP	ENGINE COMPRESSION BRAKE {Jacobs} for Cummins ISL/L9 Engines; with Selector Switch and On/Off Switch
7WZY	SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, On/Off Type, Mounted in IP, Inhibits Diesel Particulate Filter Regeneration as Long as Switch is in On Position
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment <u>Includes</u> : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels : JUMP START STUD Located on Positive Terminal of Outermost Battery : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered
8518	CIGAR LIGHTER Includes Ash Cup

<u>Code</u>	<u>Description</u>
8585	FOG LIGHTS Prewire; Includes Auxiliary Switch and Wiring to Front Bumper, for Driving Lights or Fog Lights Mounted by Customer
8718	POWER SOURCE Cigar Type Receptacle without Plug and Cord
8G XK	ALTERNATOR {Leece-Neville BLP4006HN} Brushless, 12 Volt 325 Amp. Capacity, Pad Mount, with Remote Sense
8HAE	BODY BUILDER WIRING Rear of Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/ Accessory Power/Ground and Sealed Connector for Stop/Turn
8HAT	WIRING, SPECIAL Includes Wires Installed Through the Dash Panel and End in Engine Compartment, In Cab Wire Ends Will Have ESC Input Terminals, Engine Compartment Wire Ends will have Sealed Connectors
8M KL	BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total
8REA	2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and 10' Coil Taped to Base Harness
8RMA	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/3MM Auxiliary Input, MP3, Apple Device Play & Control, Bluetooth for Phone & Music, with Multiple Speakers
8THB	BACK-UP ALARM Electric, 102 dBA
8TPA	DATA RECORDER Includes Display Mounted in Overhead Console
8VAY	HORN, ELECTRIC Disc Style
8WEE	SWITCH, AIR HORN, PASSENGER Fire Truck Application; Momentary Switch Located in Instrument Panel Close to Passenger, Driver Also To Activate Switch at Steering Wheel
8WHE	HORN, AIR ACCOMMODATION PACKAGE; less Horn
8WML	HEADLIGHTS Long Life Halogen; for Two Light System
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection
8WTR	COURTESY LIGHT (4) Mounted In Front & Rear Map Pocket Left and Right Side
	<u>Notes</u>
	: Feature included with CAB INTERIOR TRIM, Premium
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm
8WXB	HEADLIGHT WARNING BUZZER Sounds When Head Light Switch is on and Ignition Switch is in "Off" Position
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened
8WZP	INDICATOR, BATTERY WARNING Green BATTERY ON Indicator, Mounted on Left Side of Instrument Panel, To be Used with Factory Installed or Customer Mounted Battery Disconnect Switch
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses
8XBK	SWITCH, AUXILIARY Switch 40 amp Circuit for Customer Use; Includes Wiring Connection at PDC and Control in Cab
8XGJ	BATTERY BOX Steel with Plastic Cover, 30" Wide, 2, 3 or 4 Battery Capacity, Mounted Left Side Under Cab
8XHD	BATTERY DISCONNECT SWITCH 300 Amp; Cab Mounted, Disconnects Charging Circuits; Locks with Padlock
8XJE	TURN SIGNALS, FRONT {Sound Off} Dual Face, LED, Amber/Amber, Mounted on Top of Fender, Used with Standard Flush Mounted Front Turn Signal, Side Marker Lamps, Parking Lights and Reflectors

<u>Code</u>	<u>Description</u>
9593	FENDER EXTENSIONS Omit
9HAN	INSULATION, UNDER HOOD for Sound Abatement
9HBM	GRILLE Stationary, Chrome
9HBN	INSULATION, SPLASH PANELS for Sound Abatement
9WAC	BUG SCREEN Mounted Behind Grille
9WBC	FRONT END Tilting, Fiberglass, with Three Piece Construction; for WorkStar
9WBT	GRILLE EMBER SCREEN Mounted to Grille and Cowl Tray to Keep Hot Embers out of Engine and HVAC Air Intake System
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100 <u>Includes</u> : PAINT SCHEMATIC ID LETTERS "GM"
10632	PAINT IDENTITY, PT-2 Single Color, Instruction No. 932. Wheels
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
10771	PAINT CLASS Single Custom Color
11001	CLUTCH Omit Item (Clutch & Control)
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection
12849	BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines
12EHV	ENGINE, DIESEL {Cummins L9 330} EPA 2017, 330 HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 330 Peak HP (Max)
12THT	FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual Torque Device for Disengaged Fan Speed <u>Includes</u> : FAN Nylon
12UWZ	RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core with Internal Water to Oil Transmission Cooler and 1167 In Charge Air Cooler <u>Includes</u> : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber
12VBG	AIR CLEANER Dual Element, with Integral Pre Cleaner <u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel
12WBR	FAN OVERRIDE Manual; with Electric Switch on Instrument Panel, (Fan On with Switch On)
12WYK	ENGINE WATER COOLER {Sen-Dure} Auxiliary, For Use with Fire Trucks
12WZB	EMISSION COMPLIANCE Low NOx Idle Engine, Complies with California Clean Air Regulations; Includes "Certified Clean Idle" Decal on Hood
12XAT	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; with Ignition Switch Control for Cummins ISB/B6.7 or ISL/L9 Engines

<u>Code</u>	<u>Description</u>
12XZG	FEDERAL EMISSIONS {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2017
13AUL	TRANSMISSION, AUTOMATIC {Allison 3000EVS_P} 5th Generation Controls; Close Ratio, 5-Speed; with Overdrive, Includes Oil Level Sensor, with Provision for PTO, Less Retarder, Max. GVW N/A
13TKA	TRANSFER CASE {Meritor T-4210 2} 2 Spd, 10000 lb-ft Total Capacity, with Provision for PTO, with Electric Over Air Control <u>Includes</u> : LIGHT, INDIC, ALL-WHEEL DRIVE Illuminates With All Wheel Drive Engaged, Located on Instrument Panel
13WDB	TRANSFER CASE LUBE {EmGard 50W} Synthetic; 1 thru 14.99 Pints
13WDV	OIL COOLER, TRANSFER CASE Remote Mounted Back of Cab
13WDZ	SHIFT CONTROL PARAMETERS Allison S-1 Performance Programming in Primary and Allison Fixed Programming in Secondary
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints
13WUZ	ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS), 127/198 Includes J1939 Based Auto Neutral; Fire/Pumper, Tank, Aerial/Ladder
13WVN	TRANSMISSION SHIFT CONTROL {Allison} Bump Shifter Type; for Allison 3000 & 4000 Transmission
13XAN	PTO LOCATION No PTO
14ARB	AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, Driver Controlled Locking Differential, 200 Wheel Ends . Gear Ratio: 4.89 <u>Includes</u> : REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires. : When Specifying Axle Ratio, Check Performance Guidelines and TCAPE for Startability and Performance
14SAL	SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 31,000-lb Capacity, Includes 4500-lb Capacity Multileaf Auxiliary <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
14WAP	SHOCK ABSORBERS, REAR (2)
15DYR	DEF TANK 9.5 U.S. Gal. 35.9L Capacity, Frame Mounted Outside Left Rail, Back of Cab
15LLY	LOCATION FUEL/WATER SEPARATOR Mounted Outside Left Rail 66" Back of Cab
15LMN	FUEL/WATER SEPARATOR {Racor 400 Series,} 12 Volt Pre-Heater, with Primer Pump, and WIF Sensor
15SVN	FUEL TANK Top Draw; Non-Polished Aluminum, 26" Diam., 70 U.S. Gal., 265L Capacity Mounted Left Side, Back of Cab
15WCS	FUEL COOLER Less Thermostat; Mounted in Front of Cooling Module
16196	CAB Conventional 6-Man Crew Cab <u>Includes</u> : ARM REST (2) Molded Plastic; One Each Door : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window : CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted

<u>Code</u>	<u>Description</u>
	: GLASS, ALL WINDOWS Tinted : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side : GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side : GRAB HANDLE, CAB INTERIOR (4) Two Each Side, Rear Door Mounted at Hinge Side and "C" Pillar Mounted : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color : STEP (8) Two Steps Per Door
	<u>Notes</u> : 43.9" CA Loss
16HBA	GAUGE CLUSTER English with English Electronic Speedometer <u>Includes</u> : GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)
16HCL	SEATBELT WARNING PREWIRE Includes Seat Belt Switches and Seat Sensors for all Belted Positions in the Cab and a Harness Routed to the Center of the Dash for the Aftermarket Installation of the Data Recorder and Seatbelt Indicator Systems, for 4 to 6 Seat Belts
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16HLJ	GAUGE, DEF FLUID LEVEL
16JAJ	SEAT, PASSENGER {H.O. Bostrom Tanker 450} for SCBA with SecureAll Locking System, Non-Suspension, High Back, Vinyl, Adjusters, 7-Degree Back Angle, with Covered Back, International Logo on Headrest
16JJG	SEAT, DRIVER {H.O. Bostrom Sierra Air 100} NFPA Compliant, Air Suspension, High Back, Vinyl with Covered Back and International on Headrest for Fire Truck <u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type
16RDZ	SEAT, REAR {H.O. Bostrom Tanker 400CT} for SCBA with Secure All Locking System, Three Individual Seats on One Riser, Non Suspension, High Back, Vinyl, with Covered Back and International on Head Rest
16SDC	GRAB HANDLE (2) Chrome Towel Bar Type with Anti-Slip Rubber Inserts; for Cab Entry, Mounted Left and Right, Each Side at "B" Pillar
16SNA	MIRRORS (2) {Lang Mekra} Rectangular, Black Heads, Brackets and Arms, Breakaway Type, 7.55" x 14.1" Integral Convex Both Sides, 102" Inside Spacing
16VCA	SEAT BELT All Red; 4 to 6
16WCT	AIR CONDITIONER {Blend-Air} with Integral Heater & Defroster <u>Includes</u> : HEATER HOSES Premium : HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps : REFRIGERANT Hydrofluorocarbon HFC-134A
16WJS	INSTRUMENT PANEL Center Section, Flat Panel
16WKY	HVAC FRESH AIR FILTER
16WLE	STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door
16WSG	CAB INTERIOR TRIM Deluxe; for Crew Cab

<u>Code</u>	<u>Description</u>
	<u>Includes</u>
	: CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering
	: CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket
	: DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors
	: FLOOR COVERING Rubber, Black
	: HEADLINER Soft Padded Cloth
	: INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section
	: STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door
	: SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console
16WSK	CAB REAR SUSPENSION Air Bag Type
26DTT	WHEEL, SPARE, DISC {Accuride 28828} 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, with .472" Thick Increased Capacity Disc
27DTT	WHEELS, FRONT {Accuride 28828} DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and with Steel Hubs
28DTT	WHEELS, REAR {Accuride 28828} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and with Steel Hubs
60AAB	BDY INTG, REMOTE POWER MODULE (2) Mounted Under Cab or On Battery Box; Up to 6 Outputs & 6 Inputs each, Max. 20 amp. per Channel, Max. 80 amp. Total per Power Module (Includes 12 Latched Switches)
60AKK	BDY INTG, HEADLIGHTS, WIG WAG High Beam Wig Wag with Park Brake Interlock, Park Brake Disables Wig Wag
7382135420	(2) TIRE, FRONT 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive
7382135420	(4) TIRE, REAR 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive

Services Section:

40115	WARRANTY Standard for WorkStar 7300/7400 (4x2, 4x4, 6x4, 6x6), Effective with Vehicles Built January 2, 2015 or Later, CTS-2002U
1	Add PTO
	Doc

<u>Description</u>	(US DOLLAR)	<u>Price</u>
Net Sales Price:		\$122,500.00

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

Approved by Seller:

Accepted by Purchaser:

Official Title and Date

Firm or Business Name

Authorized Signature

Authorized Signature and Date

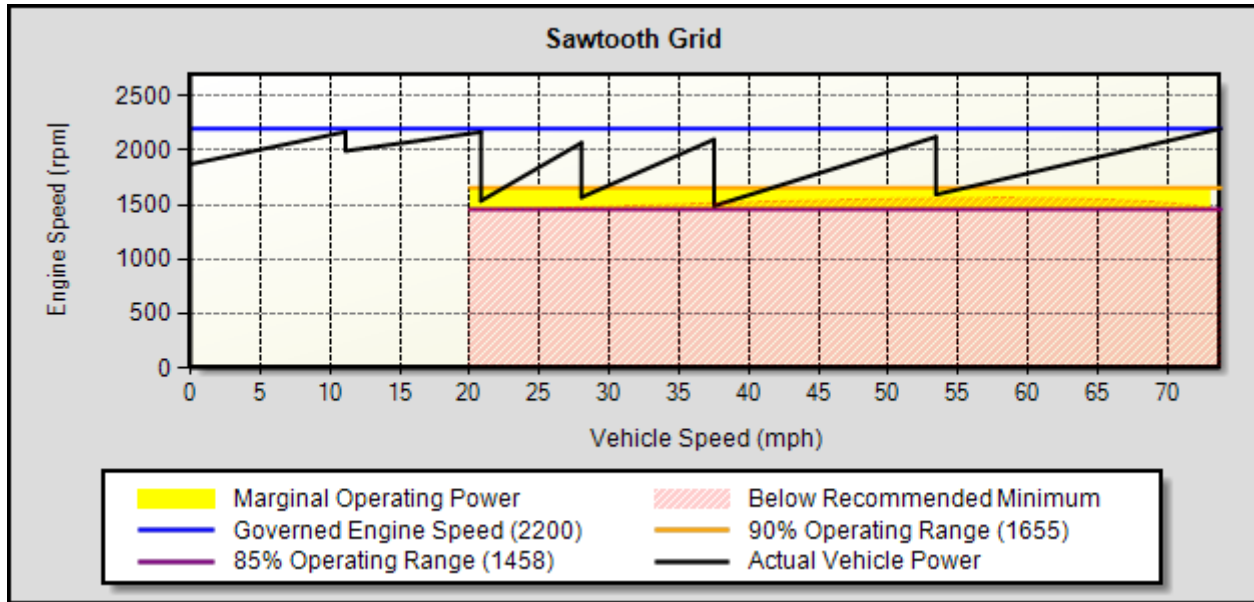
This proposal is not binding upon the seller without Seller's Authorized Signature

Official Title and Date

The TOPS FET calculation is an estimate for reference purposes only. The seller or retailer is responsible for calculating and reporting/paying appropriate FET to the IRS.

There is no weight study for this proposal.

ENGINE/TRANSMISSION MATCHING



Sawtooth Details

Gear	Trans Ratio	Multi Speed	Upshift Power Avail		Govern Power Avail		Peak Power Comparison			Warn Msg
			Veh Spd (MPH)	Eng Spd (RPM)	Veh Spd (MPH)	Eng Spd (RPM)	Gear Step (%)	85% Range (%)	90% Range (%)	
1C-2	3.49	1.00	0.0	1875	11.1	2171	N/A	51	33	
2C-2	1.86	1.00	11.1	1995	20.8	2169	N/A	51	33	
2L-2	1.86	1.00	20.8	1536	28.0	2070	N/A	51	33	
3L-2	1.41	1.00	28.0	1569	37.5	2101	N/A	51	33	
4L-2	1.00	1.00	37.5	1490	53.4	2125	N/A	51	33	
5L-2	0.75	1.00	53.4	1594	73.8	2200	N/A	51	33	

@ - WHEELSLIP CAN OCCUR AT THE GRADE SHOWN. THE VEHICLE IS CAPABLE OF INCREASED GRADEABILITY IF MORE WEIGHT IS PLACED ON THE DRIVE AXLES.

STEADY STATE PERFORMANCE

Performance Results	Gear	Veh Spd (mph)	Eng Spd (rpm)	Fuel Econ (mpg)	Grade (%)	Notes
LEVEL ROAD MAXIMUM SPEED	5L-2	75.5	2252	*****	0.00	
HI GEAR SPEED @ RATED RPM	5L-2	73.8	2200	*****	1.19	
55.0 MPH STEADY-STATE	5L-2	55.0	1641	*****	3.13	
TYPICAL OPERATING SPEED	5L-2	65.0	1939	*****	2.30	- Calculated Grade Ability/Fuel Economy

VEHICLE ORDER CODING ERRORS MAY RESULT IF THE "LEVEL ROAD MAX SPEED" VALUE EXCEEDS THE "HI GEAR SPEED @ RATED RPM" AND IS USED AS THE ENGINE PROGRAMMABLE VEHICLE SPEED LIMIT.

IF THE RESULTS CONTAIN "----", VEHICLE CANNOT ATTAIN THAT SPEED.

IF THE RESULTS CONTAIN "*****", THE ENGINE USED DOES NOT HAVE A FUEL MAP. FUEL ECONOMY CANNOT BE PREDICTED.

Recommendations / General Information

IDLE FUEL RATE : ***** GAL/S/HR @ 700.0 RPM
TORQUE CONVERTER : TC-419 STALL RATIO: 2.02

Fuel Economy Route: Normal Route - City, Suburban, and Highway

Key Fuel Economy Information	City	Suburban	Highway	Notes
MILES PER GALLON	*****	*****	*****	
AVERAGE MPH	19.1	40.0	54.6	
MISSION MINUTES	29.61	51.79	173.30	

IF THE RESULTS CONTAIN "*****", THE ENGINE USED DOES NOT HAVE A FUEL MAP. FUEL ECONOMY CANNOT BE PREDICTED.

GRADEABILITY PERFORMANCE

Enroute - Full Throttle Upshift Performance

Gear	Trans Ratio	Multi Speed	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes Msg
1C-2	3.49	1.00	0.0	1875	0.00	46.00	@ STALL
			6.6	2022	206.41	34.42	70% EFF
			8.7	2080	233.21	29.21	80% EFF
			11.1	2171	246.42	23.63	
2C-2	1.86	1.00	11.1	1995	193.87	18.23	
			20.8	2169	245.72	11.90	
2L-2	1.86	1.00	20.8	1536	253.57	12.31	
			28.0	2070	288.25	10.12	
3L-2	1.41	1.00	28.0	1569	255.09	8.83	
			37.5	2101	283.17	6.94	
4L-2	1.00	1.00	37.5	1490	244.03	5.82	
			53.4	2125	274.63	3.87	
5L-2	0.75	1.00	53.4	1594	243.83	3.26	
			73.8	2200	251.61	1.19	RATED RPM
			74.0	2209	240.01	1.00	
			74.8	2230	210.04	0.50	
			75.5	2252	179.43	0.00	LEVEL ROAD

STARTING / TOP GEAR PERFORMANCE

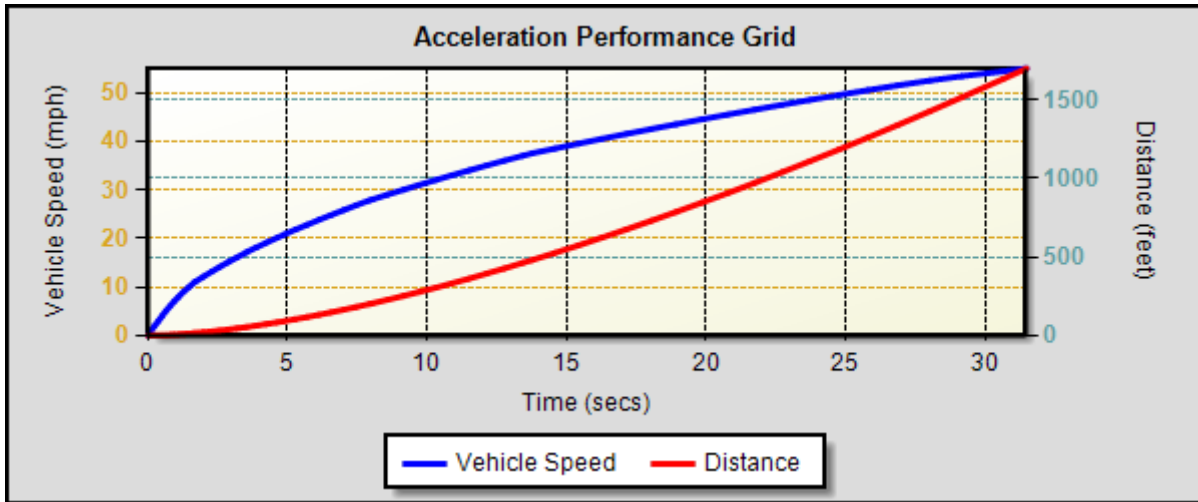
Gear	Trans Ratio	Multi Speed	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes Msg
1C-1	3.49	2.06	0.0		0.00	46.00	@ STALL
			4.2		167.39	46.00	@ 80% EFF
1C-2	3.49	1.00	0.0		0.00	46.00	@ STALL
			8.7		233.21	29.21	80% EFF - Calculated Start Ability - Calculated Start Ability
5L-1	0.75	2.06	38.4		42.64	0.00	LEVEL ROAD
			35.8		262.14	6.72	RATED RPM
5L-2	0.75	1.00	75.5		179.43	0.00	LEVEL ROAD
			73.8		251.61	1.19	RATED RPM

@ - WHEELSLIP CAN OCCUR AT THE GRADE SHOWN. THE VEHICLE IS CAPABLE OF INCREASED GRADEABILITY IF MORE WEIGHT IS PLACED ON THE DRIVE AXLES.

THE TRANSMISSION WAS SIMULATED IN PERFORMANCE OPERATING MODE.

ACCELERATION PERFORMANCE RESULTS

Acceleration Performance Grid



Acceleration Performance: TIME TO ACCELERATE ON A GRADE TO 55.0 (MPH) IS 31.48 (SECS)

Acceleration Performance Details

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes	
1C	0.12	0.1	1.0		
	0.25	0.4	2.0		
	0.38	0.8	3.0		
	0.51	1.5	4.0		
	0.64	2.4	5.0		
	0.79	3.5	6.0		
	0.94	5.0	7.0		
	1.11	6.8	8.0		
	1.28	9.1	9.0		
	1.48	11.7	10.0		
	2C	1.68	14.9	11.0	
		1.71	15.3	11.1	
		1.99	20.1	12.1	
		2.28	25.4	13.1	
2.57		31.3	14.1		
2.88		37.9	15.1		
3.20		45.2	16.1		
3.53		53.3	17.1		
2L	3.88	62.3	18.1		
	4.24	72.2	19.1		
	4.63	83.2	20.1		
	4.89	91.1	20.8		
	5.29	103.7	21.8		
	5.71	117.3	22.8		
	6.13	131.7	23.8		
	6.56	147.2	24.8		
3L	7.01	163.6	25.8		
	7.46	181.1	26.8		
	7.93	200.0	27.8		
	8.04	204.2	28.0		
	8.59	227.3	29.0		
	9.15	251.6	30.0		

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes
	9.72	277.2	31.0	
	10.31	304.1	32.0	
	10.90	332.5	33.0	
	11.51	362.4	34.0	
	12.13	393.8	35.0	
	12.77	427.0	36.0	
	13.43	462.4	37.0	
4L	13.76	480.3	37.5	
	14.58	526.1	38.5	
	15.42	573.9	39.5	
	16.27	623.8	40.5	
	17.14	675.9	41.5	
	18.02	730.3	42.5	
	18.92	787.0	43.5	
	19.84	846.3	44.5	
	20.78	908.1	45.5	
	21.74	972.7	46.5	
	22.71	1040.0	47.5	
	23.71	1110.4	48.5	
	24.74	1183.8	49.5	
	25.78	1260.6	50.5	
	26.87	1341.9	51.5	
	28.01	1428.6	52.5	
5L	29.16	1518.2	53.4	
	30.63	1634.0	54.4	
	31.48	1702.3	55.0	

REQUIRED TCAPE INFORMATION

TCAPE Factors For Vehicle

Selected Rear Axle Gear Ratio(s):	4.89
Parked PTO:	NO
Enroute PTO:	NO
Vehicle Vocation:	GENERAL ON HIGHWAY
ID Wheel Slip Conditions:	Yes
Road Governor/Cruise Ctrl:	No
Engine Fan Type:	VISCOUS
Road Surface Type:	TYPICAL
Drive Axle Engaged:	NO
Fuel Economy Route:	Normal Route - City, Suburban, and Highway
Acceleration Grade (%):	0.0
Frontal Area (FT ²):	76
Speed Limit on Route (MPH):	61.0
Relative Drag Coefficient:	85
Alternator (A):	40
Transfer Case - Gear Ratio (Accel Perf):	1.000
Steering Gear (HP):	2.60
Air Conditioner (HP):	3.20
Transfer Case - Gear Ratio(Start Ability):	1.000
Vehicle Width (IN):	96
Vehicle Height (IN):	114
Weight on Drive Axle (LBF):	23000
Acceleration Vehicle Spd (MPH):	55.0
Air Compressor (HP):	2.20
Transfer Case - Gear Ratio (Fuel Economy):	1.000
Transfer Case - Gear Ratio (Grade Ability):	1.000
TIRE, FRONT	2 - RADIAL NORMAL
TIRE, REAR	4 - RADIAL NORMAL

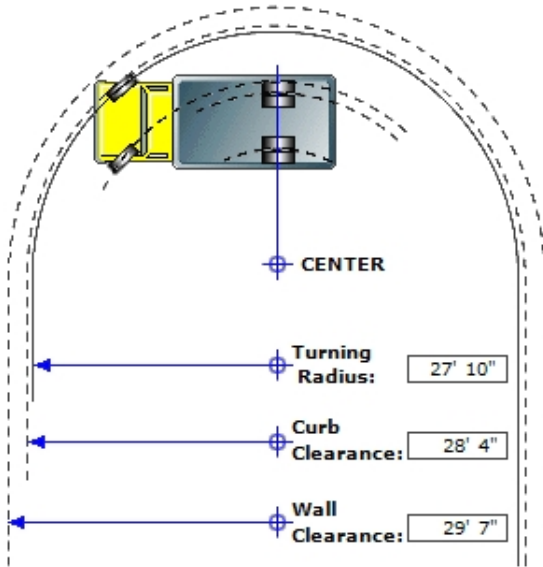
Components

0002GAB	AXLE, FRONT DRIVING {Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting
0004SPA	AIR COMPRESSOR {Cummins} 18.7 CFM Capacity
0005PSA	STEERING GEAR {Sheppard M100} Power
0008GXX	ALTERNATOR {Leece-Neville BLP4006HN} Brushless, 12 Volt 325 Amp. Capacity, Pad Mount, with Remote Sense
0012EHV	ENGINE, DIESEL {Cummins L9 330} EPA 2017, 330 HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 330 Peak HP (Max)
0012THT	FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual Torque Device for Disengaged Fan Speed
0013AUL	TRANSMISSION, AUTOMATIC {Allison 3000EVS_P} 5th Generation Controls; Close Ratio, 5-Speed; with Overdrive, Includes Oil Level Sensor, with Provision for PTO, Less Retarder, Max. GVW N/A
0013TKA	TRANSFER CASE {Meritor T-4210 2} 2 Spd, 10000 lb-ft Total Capacity, with Provision for PTO, with Electric Over Air Control
0014ARB	AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, Driver Controlled Locking Differential, 200 Wheel Ends
0016196	CAB Conventional 6-Man Crew Cab
0016WCT	AIR CONDITIONER {Blend-Air} with Integral Heater & Defroster
07382135420	TIRE, FRONT 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive
07382135420	TIRE, REAR 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive

TCAPE HAS BEEN DESIGNED TO GIVE ECONOMY AND PERFORMANCE PREDICTIONS WHICH HAVE BEEN SHOWN TO BE TYPICAL FOR MOST OPERATIONS. HOWEVER, DUE TO OPERATING CONDITIONS, DRIVER INFLUENCES, AND OTHER FACTORS, YOUR RESULTS MAY VARY FROM THOSE PREDICTED. ALSO, BECAUSE OF FUEL MAPPING PROCEDURES USED

BY VARIOUS ENGINE MANUFACTURERS, COMPARISONS OF FUEL ECONOMY RESULTS FOR DIFFERENT BRANDS OF ENGINES MAY VARY FROM THOSE SHOWN.

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Series: 7000
 Model: SR525
 Description: 7400 SFA 4X4
 Model Year: 2018

Calculation Factors

Wheelbase: 179
 Front Axle: 0002GAB
 Description: AXLE, FRONT DRIVING, {Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting
 Front Wheel: 0027DTT
 Description: WHEELS, FRONT, {Accuride 28828} DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and with Steel Hubs
 Front Tire: 07382135420
 Description: TIRES, 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive
 Steering Gear: 0005PSA
 Description: STEERING GEAR, {Sheppard M100} Power

Turning Radius Statistics

General Information

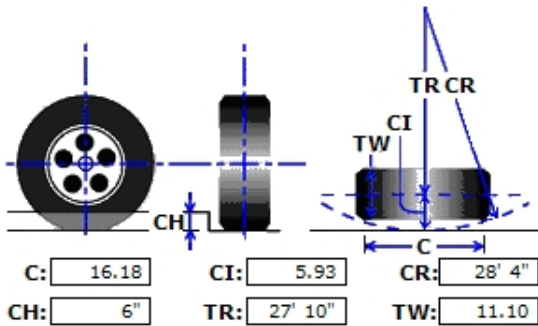
Inside Turn Angle: 42 Degrees
 Radial Overhang: 21

Axle Information

KingPin Inclination: 7 Degrees
 KingPin Center: 68.9

Turning Radius - Curb View

C - Curb Contact Length: 16.18
 CI - Curb Clearance Increment: 5.93
 CR - Curb Clearance Radius: 28'4"
 CH - Curb Height: 6"
 TR - Turning Radius: 27'10"
 TW - Tire Width: 11.10



* All Measurements are in inches, unless otherwise specified.

This information is based on engineering information available at this time. Actual figures may vary. Navistar, Inc. cannot accept liability for consequences due to this variance.