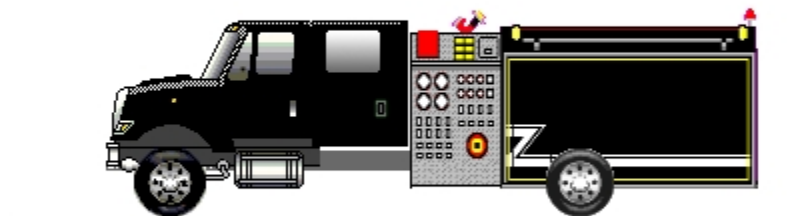


**Prepared For:**  
AUGUSTA V.F.C. - ANTIETAM  
Bruce A Nalesnik  
1 Industrial Complex  
Nesquehoning, PA 18240-1499  
(570)669 - 5147  
Reference ID: AUGUSTA

**Presented By:**  
KOVATCH MOBILE EQUIP COR  
BRUCE A NALESNIK  
ONE INDUSTRIAL COMPLEX  
NESQUEHONING PA 18240 -  
(570)669-5147

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**  
**2012 7400 SFA 4X4 (SR525)**

<b>APPLICATION:</b>	Fire/Pumper (Emergency)
<b>MISSION:</b>	Requested GVWR: 35000. Calc. GVWR: 37000 Calc. Start / Grade Ability: 31.00% / 3.65% @ 55 MPH Calc. Geared Speed: 66.9 MPH
<b>FUEL ECONOMY:</b>	N/A
<b>DIMENSION:</b>	Wheelbase: 205.00, CA: 86.10, Axle to Frame: 65.00
<b>ENGINE, DIESEL:</b>	{MaxxFace 9} EPA 10, 330 HP @ 2000 RPM, 950 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed
<b>TRANSMISSION, AUTOMATIC:</b>	{Allison 3000EVS_P} 4th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes Oil Level Sensor, With Provision for PTO, Less Retarder, Max. GVW N/A
<b>CLUTCH:</b>	Omit Item (Clutch & Control)
<b>AXLE, FRONT DRIVING:</b>	{Meritor MX-14-120} Single Reduction, 14,000-lb Capacity
<b>AXLE, REAR, SINGLE:</b>	{Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, With 200 Wheel Ends Gear Ratio: 5.38
<b>CAB:</b>	Conventional 6-Man Crew Cab
<b>TIRE, FRONT:</b>	(2) 12R22.5 HSC (CONTINENTAL) 483 rev/mile, load range H, 16 ply
<b>TIRE, REAR:</b>	(4) 11R22.5 HDO (CONTINENTAL) 489 rev/mile, load range H, 16 ply
<b>SUSPENSION, RR, SPRING, SINGLE:</b>	Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring
<b>FRAME REINFORCEMENT:</b>	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
<b>PAINT:</b>	Cab schematic 209GM Location 1: 9408, Off White (Custom) Location 2: 2832, Candy Apple Red (Custom) Chassis schematic N/A

<u>Code</u>	<u>Description</u>
SR52500	Base Chassis, Model 7400 SFA 4X4 with 205.00 Wheelbase, 86.10 CA, and 65.00 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
1LNY	BUMPER, FRONT Steel, Swept Back, with Headlight Provision and Wiring  <u>Includes</u> : BUMPER, FRONT Powder Coated Gray (Argent) Color
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille
1WGG	WHEELBASE RANGE 181" (460cm) Through and Including 205" (520cm)
2ESA	AXLE, FRONT DRIVING {Meritor MX-14-120} Single Reduction, 14,000-lb Capacity  <u>Includes</u> : DRAIN PLUG, DRIVING FRONT AXLE Magnetic  <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.
2WLA	AXLE, FRONT DRIVING, LUBE {EmGard 75W-90} Synthetic Oil; 1 thru 29.99 Pints
3ADD	SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 14,000-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 Bendix On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic : SLACK ADJUSTERS, REAR Automatic : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4  <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.
4583	HAND CONTROL VALVE, AIR For Rear Chassis Brakes; With Pressure Reducing Valve.  <u>Includes</u> : HAND CONTROL VALVE, AIR Mounted on Steering Column  <u>Notes</u> : Not Intended to be Used for Locally Installed Trailer Connections

<u>Code</u>	<u>Description</u>
4732	DRAIN VALVE {Berg} Manual; With Pull Chain, for Air Tank  <u>Includes</u> : DRAIN VALVE Mounted in Wet Tank
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)
4EBT	AIR DRYER {Bendix AD-IP} With Heater  <u>Includes</u> : AIR DRYER LOCATION Outside Left Rail, Back of Cab
4ESX	BRAKE CHAMBERS, FRONT AXLE {Haldex} 20 SqIn
4EVL	BRAKE CHAMBERS, REAR AXLE {Haldex GC3030LHDHO} 30/30 Spring Brake  <u>Includes</u> : BRAKE CHAMBERS, SPRING (2) Rear Parking; WITH TRUCK BRAKES: All 4x2, 4x4; WITH TRACTOR BRAKES: All 4x2, 4x4; 6x4 & 6x6 with Rear Tandem Axles Less Than 46,000-lb. or GVWR Less Than 54,000-lb.
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.
4SBD	AIR COMPRESSOR {Bendix Tu-Flo 750} 16.5 CFM Capacity
5710	STEERING COLUMN Tilting and Telescoping
5CAL	STEERING WHEEL 2-Spoke, 18" Diam., Black
5PSL	STEERING GEAR {Sheppard M-110} Power
7BDK	EXHAUST SYSTEM Single, Horizontal, Aftertreatment Device Frame Mounted Outside Left Rail Back of Cab; Includes Horizontal Tail Pipe  <u>Includes</u> : NOTE: The Horizontal Tailpipe Includes a Temperature Control Device
7SCY	ENGINE COMPRESSION BRAKE for MaxxFoRce I6 Engines; Electronically Activated
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> : BATTERY BOX Steel with Plastic Lid : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : FUSES, ELECTRICAL SAE Blade-Type : 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 : HORN, ELECTRIC Single : JUMP START STUD Located on Positive Terminal of Outermost Battery : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light

<u>Code</u>	<u>Description</u>
	: RUNNING LIGHT (2) Daytime, Included With Headlights
	: 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
	: TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted
	: 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
8540	HORN, ELECTRIC (2)
8630	IGNITION SWITCH Keyless
8718	POWER SOURCE Cigar Type Receptacle without Plug and Cord
8GWY	ALTERNATOR {Leece-Neville 14931PAH} Brush Type, 12 Volt 320 Amp. Capacity, Pad Mounted
8HAB	BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn
8MKX	BATTERY SYSTEM {International} Maintenance-Free (3) 12-Volt 2775CCA Total
8RJU	RADIO {International} AM/FM Stereo With CD Player, Weatherband, Clock, Auxiliary Input, Includes Multiple Speakers
	<u>Includes</u>
	: SPEAKERS IN CAB (2) Coaxial with Deluxe Interior
	: SPEAKERS IN CAB (4) Coaxial with Premium Interior
8WCK	POWER SOURCE, TERMINAL TYPE 2-Post
8WCL	HORN, AIR Black, Single Trumpet, Air Solenoid Operated
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
8WGA	SOLENOID, AIR for Customer Use; Provides (1) Normally Closed Pilot Air Source, Approx. 4 CFM, Includes Latched Switch in Cab; Air Available Only With Key in "Ignition" or "Accessory" Position; Air Will Exhaust with Key in "Off" Position
	<u>Notes</u>
	: To Be Used as a Pilot Air and NOT as an Air Supply.
8WJV	BATTERY DISCONNECT SWITCH {Joseph Pollak} for Cab Power Disconnect Switch; Lever Operated, Disconnects Power to PDC, Does Not Disconnect Charging Circuits, Cab Mounted
8WML	HEADLIGHTS Long Life Halogen; for Two Light System
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on
8WTJ	SWITCH, BODY CIRCUITS, REAR for Bodybuilder; With 6 Switches in Instrument Panel (2-position switches); One Power Module, With 6 Channels, 20 Amp per Channel and 80 Amp Max Output, Switches Control the Power Modules Through Multiplex Wiring, Mounted at Rear of Frame
8WTL	STARTING MOTOR {Delco Remy 39MT} 12 Volt; Gear Reduced, With Thermal Over-Crank Protection
8WWJ	INDICATOR, LOW COOLANT LEVEL With Audible Alarm

<u>Code</u>	<u>Description</u>
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 Except For 5-Amp Fuses
9585	FENDER EXTENSIONS Rubber
9HAN	INSULATION, UNDER HOOD for Sound Abatement
9HBM	GRILLE Stationary, Chrome
9HBN	INSULATION, SPLASH PANELS for Sound Abatement
9LAC	INTERNATIONAL LOGOS Ship Loose International Door Badges in Cab for Installation after Customer Graphics
9WBB	GRILLE EMBER SCREEN Mounted to Grille to Keep Hot Embers out of Engine Air Intake System
9WBC	FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 & 2010 Emissions
10209	PAINT SCHEMATIC, PT-1 Two Tone, Design 209.
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
10771	PAINT CLASS Single Custom Color
10WBE	KEYS - ALL ALIKE, ID Z-001
11001	CLUTCH Omit Item (Clutch & Control)
12712	OIL FILTER, ENGINE {Hudgins Model 960 Spinner}
12NUW	ENGINE, DIESEL {MaxxForce 9} EPA 10, 330 HP @ 2000 RPM, 950 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed  <u>Includes</u> : AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated (Air Brake Chassis Only) : ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F/ -40 Degrees C; for MaxxForce Engines : COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control : CRUISE CONTROL Electronic; Controls Integral to Steering Wheel : ENGINE OIL DRAIN PLUG Magnetic : ENGINE SHUTDOWN Electric, Key Operated : FUEL FILTER Included with Fuel/Water Separator : FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly; With Water-in-Fuel Sensor; Engine Mounted : GOVERNOR Electronic : OIL FILTER, ENGINE Spin-On Type : WET TYPE CYLINDER SLEEVES
12THZ	FAN DRIVE {Horton Drivemaster Polar Extreme} Direct Drive Type, Two Speed, With Residual Torque Device for Disengaged Fan Speed  <u>Includes</u> : FAN Nylon
12UBG	RADIATOR Aluminum, Front to Back Cross Flow, Series System; 1588 SqIn Core and 885 SqIn Charge Air Cooler and 470 SqIn Low Temperature Radiator Down Flow, Includes Transmission Oil 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

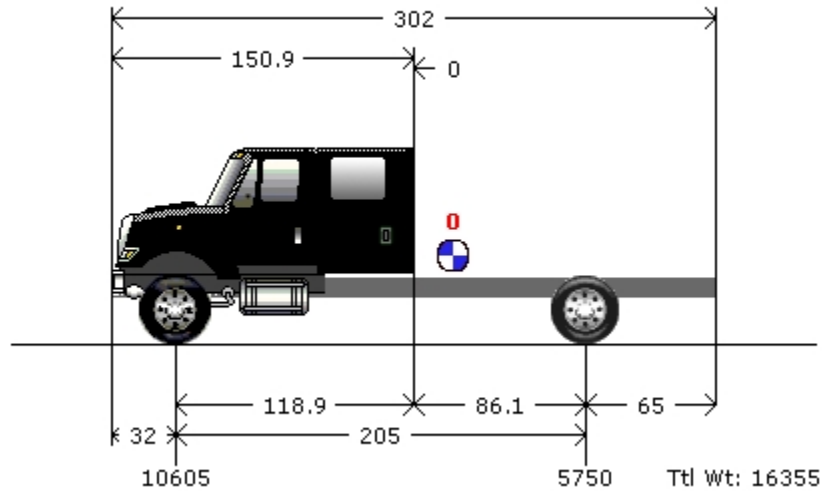
<u>Code</u>	<u>Description</u>
12UXE	FEDERAL EMISSIONS for 2010; MaxxForce 9 & 10 Engines
12VBB	AIR CLEANER Dual Element  <u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted
12VXU	THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings; Mounted on Steering Wheel
12VZA	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for MaxxForce post 2007 Emissions Electronic Engines
12WYK	ENGINE WATER COOLER {Sen-Dure} Auxiliary, For Use With Fire Trucks
12WZD	EMISSION COMPLIANCE Engine Shutdown System Exempt Vehicles, Complies With California Clean Air Regulations
13AJV	TRANSMISSION, AUTOMATIC {Allison 3000EVS_P} 4th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes Oil Level Sensor, With Provision for PTO, Less Retarder, Max. GVW N/A  <u>Includes</u> : OIL FILTER, TRANSMISSION Mounted on Transmission : TRANSMISSION OIL PAN Magnet in Oil Pan
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
13WBL	TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission
13WDB	TRANSFER CASE LUBE {EmGard 50W} Synthetic; 1 thru 14.99 Pints
13WDV	OIL COOLER, TRANSFER CASE Remote Mounted Back of Cab
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
13WYL	SHIFT CONTROL PARAMETERS Allison Performance Programming in Primary and Allison Economy Programming in Secondary
14051	AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, With 200 Wheel Ends . Gear Ratio: 5.38  <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
14VAH	SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring  <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)
14WMG	AXLE, REAR, LUBE {EmGard FE-75W-90} Synthetic Oil; 30 thru 39.99 Pints

<u>Code</u>	<u>Description</u>
15SGJ	FUEL TANK Top Draw; D Style, Non Polished Aluminum, 50 U.S. Gal., 189 L Capacity, 16" Tank Depth, With Quick Connect Outlet, Mounted Left Side, Under Cab
16196	CAB Conventional 6-Man Crew Cab  <u>Includes</u> : ARM REST (2) Molded Plastic; One Each Door : CLEARANCE/MARKER LIGHTS (5) Flush Mounted : 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 : 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
16GHV	GRAB HANDLE, CAB INTERIOR (4) Safety Yellow, Crew Cab
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, ALLISON TRAN
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16KUW	SEAT, DRIVER {Seats, Inc. Universal Series} 911, NFPA Compliant, Air Suspension, High Back Vinyl with Covered Back and International Logo on Head Rest  <u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type
16PCS	SEAT, REAR {Seats, Inc. Universal Series} 911, NFPA Compliant, Three Individual Seats on one Riser, Non-Suspension, High Back for SCBA, Vinyl With Covered Back, International Logo on Headrest  <u>Includes</u> : SEAT BELT (3) Two 3-Point Shoulder Belts for Driver and Outer Passenger and One 2-Point Lap Belt for Center Passenger
16PPZ	SEAT, PASSENGER {Seats, Inc. Universal Series} 911, NFPA Compliant, Non-Suspension, High Back for SCBA, Vinyl Covered Back, Adjusters, 5 Degree Back angle, International Logo on Headrest  <u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type

<u>Code</u>	<u>Description</u>
16SDD	GRAB HANDLE, ADDITIONAL EXT (2) Chrome; Towel Bar Type With Anti-Slip Rubber Inserts; Mounted Left and Right Side on Exterior, Rear of Rear Doors, With Crew Cab
16SDU	MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatically Controlled, Power Both Sides, Clearance Lights LED, Bright Finish Heads & Brackets
16SEE	GRAB HANDLE Chrome; Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry Mounted Left Side Only at "B" Pillar
16VCA	SEAT BELT All Red; 4 to 6
16VHX	CAB MOUNTING HEIGHT EFFECTS High Cab in Lieu of Mid High Cab Mounting (Approx. 4.5")
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
16WJV	WINDOW, POWER (4) And Power Door Locks, Front and Rear Doors, Left and Right, Includes Express Down Feature
16WKY	HVAC FRESH AIR FILTER
16WLE	STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door
16WLS	FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood
16WSJ	CAB INTERIOR TRIM Premium; for Crew Cab  <u>Includes</u> : "A" PILLAR COVER Molded Plastic : 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 : CAB SOUND INSULATION Includes Dash and Engine Cover Insulators : CAB, INTERIOR TRIM, CLOSEOUT Lower Dash Closeout Panel; Molded Plastic; Under Instrument Panel Driver Side : CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets, CB Radio Pocket, Speakers, and Reading Lights : COURTESY LIGHT (4) Mounted In Front and Rear Map Pockets - Left and Right Sides : DOOR TRIM PANELS with Cloth Insert on Bolster Driver and Passenger Doors : FLOOR COVERING Rubber, Black : GAUGE, TEMPERATURE, AMBIENT Includes Compass Readout and Wiring and Sensor With Display Unit Mounted in Cluster : HEADLINER Soft Padded Cloth : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section : STORAGE POCKET, DOOR (2) Molded Plastic (Carpet Texture), Full-Length; Driver and Passenger Doors : SUN VISOR (3) Padded Vinyl: 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side
16WSK	CAB REAR SUSPENSION Air Bag Type
27DMC	WHEELS, FRONT DISC; 22.5" Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs  <u>Notes</u> : Aluminum Wheels not Painted or Coated : Compatible Tire Sizes: 11R22.5, 12R22.5, 255/70R22.5, 255/80R22.5, 265/75R22.5, 275/70R22.5, 275/80R22.5, 295/75R22.5, 295/80R22,5



<b><u>Code</u></b>	<b><u>Description</u></b>
28DMC	WHEELS, REAR DUAL DISC; 22.5" Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs  <u>Notes</u> : Aluminum Wheels not Painted or Coated : Compatible Tire Sizes: 11R22.5, 12R22.5, 255/70R22.5, 255/80R22.5, 265/75R22.5, 275/70R22.5, 275/80R22.5, 295/75R22.5, 295/80R22,5 : Polished Surface Outside Dual Only
60AAA	BDY INTG, REMOTE POWER MODULE Mounted Under Cab or On Battery Box; Up to 6 Outputs & 6 Inputs, Max. 20 amp. per Channel, Max. 80 amp. Total (Includes 1 Switch Pack With Latched Switches)
60ACW	BDY INTG, I/O EXPANSION HARNES {for Diamond Logic Builder} In-Cab wire harness (DLB) program only, Includes a harness with five blunt cut wires routed on lower left of instrument panel. Two ground active inputs and two (.5Amp) relay drivers outputs are provided
7382135413	(4) TIRE, REAR 11R22.5 HDO (CONTINENTAL) 489 rev/mile, load range H, 16 ply
7382155408	(2) TIRE, FRONT 12R22.5 HSC (CONTINENTAL) 483 rev/mile, load range H, 16 ply



Graphics are provided as visual aids only and are not intended to represent the actual scale, shape, or color of the truck or its components. All weights are represented in lbs.

Truck			Body/Trailer			Chassis/Empty Weights	
Bumper to Axle	(BA)	32.0	Body Length	(BL)	N/A	Tractor Front Axle:	10,045
Wheelbase	(WB)	205.00				Tractor Rear Axle:	5,563
Axle to Frame	(AF)	65.00					
Axle to Back Cab	(ABC)	118.9					
Cab to Axle	(CA)	86.1					
Usable CA		86.1					
CA Reduction Adjustment		0					
Fuel (Gals)		63					

Before the Cab			Cab			Payloads			Body			After the Body		
#	Weight	CG	#	Weight	CG	#	Weight	CG	#	Weight	CG	#	Weight	CG
						1	0	20						

Loads	
Payload Weight:	0
Driver:	300
Fuel(lbs):	447

Weight Distribution	
Total Front Axle:	10,605
Total Rear Axle:	5,750
Total Weight:	16,355

Weights and clearances in this proposal are estimates only. Navistar, Inc. is not liable for any consequences resulting from any differences between the estimated weights and clearances and the actual manufactured weights and clearances.

**Weight Distribution**

All weights are represented in lbs.

	<u>Truck</u>		
	Front	Rear	Total
<b><u>Chassis Weight</u></b>			
Chassis Weight:	10,045	5,563	<b>15,608</b>
Fuel:	335	112	<b>447</b>
<b>(Curb Weight):</b>	<b>10,380</b>	<b>5,675</b>	<b>16,055</b>

**Loads**

Payloads:	0	0	<b>0</b>
Driver:	225	75	<b>300</b>
<b>Axle Totals (Gross Weight):</b>	<b>10,605</b>	<b>5,750</b>	<b>16,355</b>

**Weight Ratings**

	<u>Truck</u>	
	Front	Rear
Axle(axle capacity)	14,000	23,000
Tire(tire capacity)	14,780	26,440
Suspension(suspension capacity)	14,000	23,500
Spring:	0	
Fed Bridge Law (axle spread):	20,000	20,000

<b>Wheel Combination</b>	<b>Load</b>	<b>Limit</b>
1 - 2	16,355	47,000

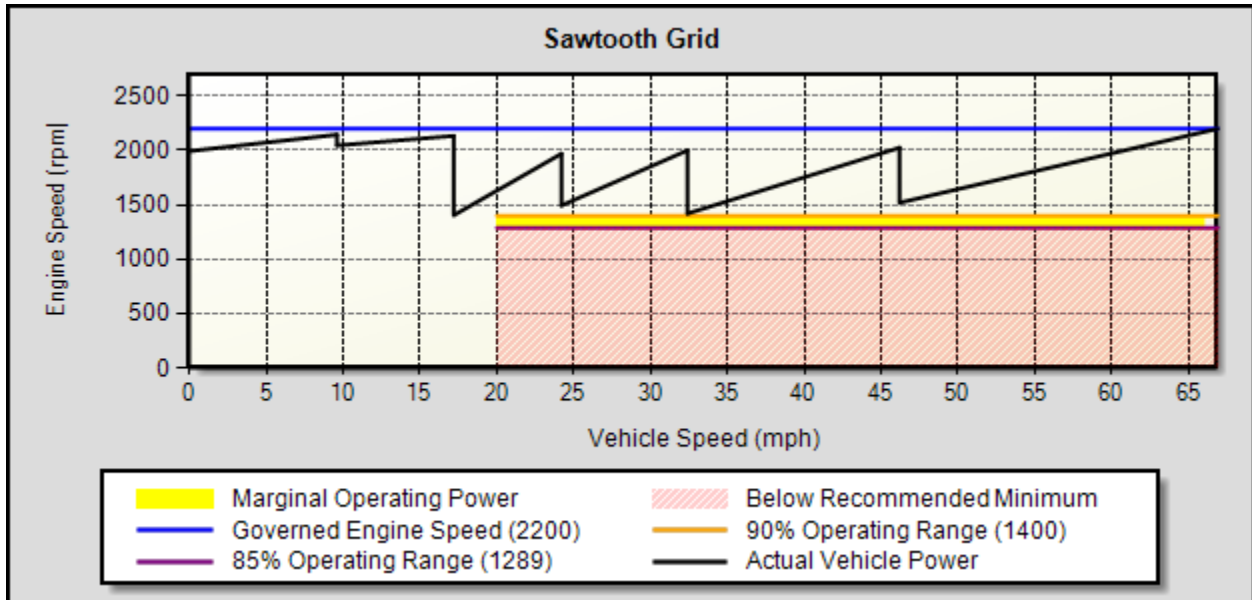
Federal Total Vehicle Weight Limit: 80,000

Maximum Gross Vehicle Weight Rating (GVWR) 37,000 - Gross Vehicle Weight(GVW) 16,355 = 20,645 Reserves

**Weight Summary**

\* Distributed weights are within capacity limits

**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	1993.8	9.6	2145.0	N/A	71	57	
2C- 2	1.86	1.00	9.6	2045.9	17.2	2134.2	N/A	71	57	
2L- 2	1.86	1.00	17.2	1404.3	24.2	1969.7	N/A	71	57	
3L- 2	1.41	1.00	24.2	1493.2	32.4	2000.8	N/A	71	57	
4L- 2	1.00	1.00	32.4	1419.0	46.2	2025.0	N/A	71	57	
5L- 2	0.75	1.00	46.2	1518.8	66.9	2200.0	N/A	71	57	

@ - 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	68.8	2261	*****	0.00	
HI GEAR SPEED @ RATED RPM	5L-2	66.9	2200	*****	1.26	
55.0 MPH STEADY-STATE	5L-2	55.0	1809	*****	3.65	- 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/HR @ 800 RPM  
TORQUE CONVERTER: TC-417 STALL RATIO: 2.20

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

Key Fuel Economy Information	City	Suburban	Highway	Notes
MILES PER GALLON	*****	*****	*****	
AVERAGE MPH	19.04	39.93	54.62	
MISSION MINUTES	29.7	51.8	173.3	

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	1993.8	0.0	46.00	@ STALL
			5.6	2053.5	186.4	37.70	70% EFF
			7.4	2091.1	209.7	31.00	80% EFF
			9.6	2145.0	215.7	24.00	
2C- 2	1.86	1.00	9.6	2045.9	179.2	19.60	
			17.2	2134.2	215.6	12.80	
2L- 2	1.86	1.00	17.2	1404.3	225.2	13.40	
			24.2	1969.7	285.1	11.90	
3L- 2	1.41	1.00	24.2	1493.2	237.7	9.70	
			32.4	2000.8	281.8	8.40	
4L- 2	1.00	1.00	32.4	1419.0	224.7	6.50	
			46.2	2025.0	271.7	5.00	
5L- 2	0.75	1.00	46.2	1518.8	231.8	4.00	
			66.9	2200.0	209.3	1.30	RATED RPM
			67.3	2212.5	195.4	1.00	
			68.0	2237.5	167.0	0.50	
			68.8	2260.9	139.8	0.00	LEVEL ROAD

## STARTING / TOP GEAR PERFORMANCE

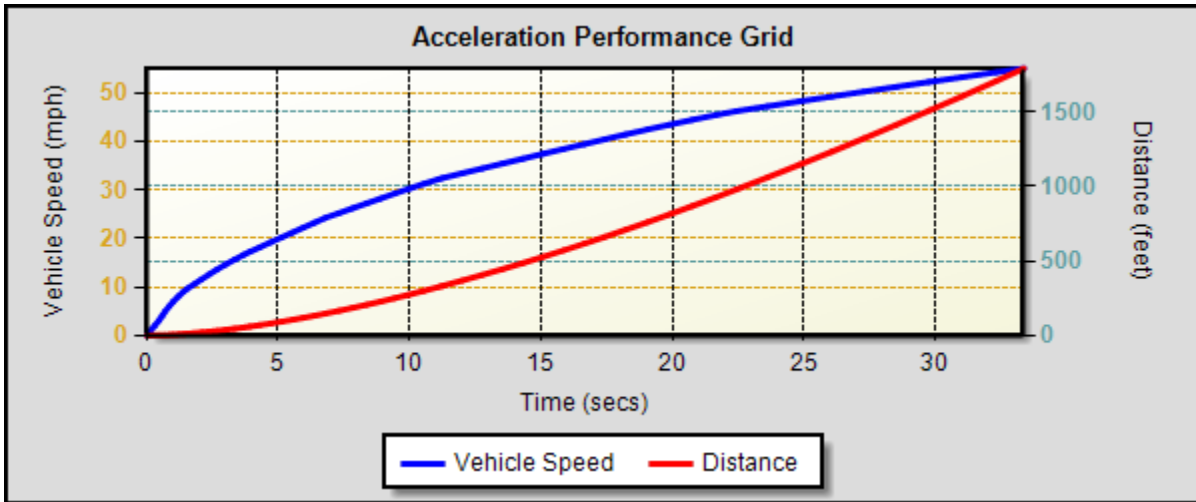
Gear	Trans Ratio	Multi Speed	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes Msg
1C- 1	3.49	2.06	0.0		0.0	46.00	@ STALL
			3.6		143.0	46.00	@ 80% EFF
1C- 2	3.49	1.00	0.0		0.0	46.00	@ STALL
			7.4		209.7	31.00	80% EFF - Calculated Start Ability
5L- 1	0.75	2.06	32.5		211.6	6.00	RATED RPM
			34.8		33.9	0.00	LEVEL ROAD
5L- 2	0.75	1.00	66.9		209.3	1.30	RATED RPM
			68.8		139.8	0.00	LEVEL ROAD

@ - 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 0.00% GRADE TO 55.0 (MPH) IS 33.37 (SECS)

**Acceleration Performance Details**

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes
1	0.15	0.1	1.0	
	0.31	0.5	2.0	
	0.46	1.0	3.0	
	0.59	1.7	4.0	
	0.71	2.5	5.0	
	0.86	3.7	6.0	
	1.02	5.2	7.0	
	1.20	7.1	8.0	
	1.40	9.6	9.0	
	2	1.54	11.5	9.6
1.82		15.8	10.6	
2.10		20.4	11.6	
2.39		25.4	12.6	
2.68		31.1	13.6	
3.00		37.7	14.6	
3.34		45.2	15.6	
3.69		53.6	16.6	
3	3.92	59.2	17.2	
	4.32	69.7	18.2	
	4.73	80.9	19.2	
	5.14	92.7	20.2	
	5.55	105.1	21.2	
	5.96	118.2	22.2	
	6.38	132.3	23.2	
4	6.79	146.6	24.2	
	7.32	165.5	25.2	
	7.84	185.3	26.2	
	8.37	205.9	27.2	
	8.90	227.3	28.2	
	9.43	249.7	29.2	
	9.97	273.2	30.2	
	10.53	298.6	31.2	

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes
5	11.12	325.8	32.2	
	11.25	332.1	32.4	
	12.01	368.5	33.4	
	12.77	406.3	34.4	
	13.54	445.4	35.4	
	14.31	485.9	36.4	
	15.08	527.7	37.4	
	15.86	571.0	38.4	
	16.64	615.6	39.4	
	17.43	661.6	40.4	
	18.22	709.3	41.4	
	19.04	759.3	42.4	
	19.88	812.2	43.4	
	20.75	868.2	44.4	
21.66	927.9	45.4		
6	22.44	980.7	46.2	
	23.63	1062.1	47.2	
	24.83	1146.0	48.2	
	26.05	1232.6	49.2	
	27.27	1321.9	50.2	
	28.51	1414.0	51.2	
	29.76	1508.9	52.2	
	31.03	1606.8	53.2	
	32.31	1707.6	54.2	
	33.37	1792.7	55.0	



## REQUIRED TCAPE INFORMATION

TCAPE Factors For Vehicle

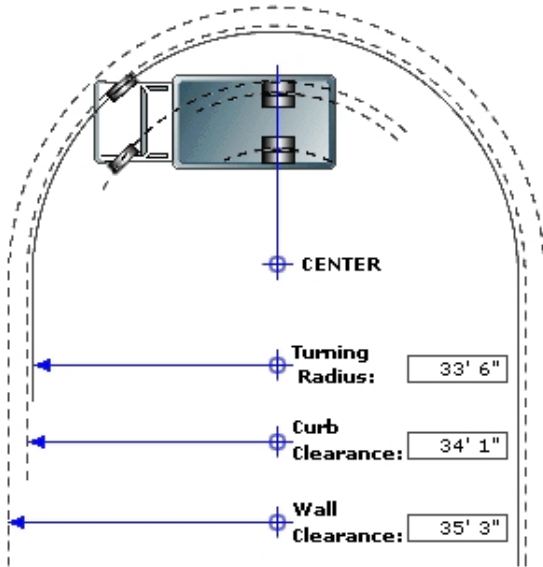
Selected Rear Axle Gear Ratio(s):	5.38
Vehicle Vocation:	GENERAL ON HIGHWAY
Enroute PTO:	NO
Transmission Mode:	Performance
Fuel Economy Route:	Normal Route - City, Suburban, and Highway
ID Wheel Slip Conditions:	Yes
Engine Fan Type:	TWO SPEED TYPE
Drive Axle Engaged:	NO
Road Surface Type:	TYPICAL
Parked PTO:	NO
Road Governor/Cruise Ctrl:	No
Acceleration Grade (%):	0.0
Transfer Case - Gear Ratio (Accel Perf):	1.000
Transfer Case - Gear Ratio (Grade Ability):	1.000
Alternator (A):	40
Weight on Drive Axle (LBF):	23000
Frontal Area (FT <sup>2</sup> ):	76
Air Compressor (HP):	2.20
Vehicle Width (IN):	96
Vehicle Height (IN):	114
Steering Gear (HP):	2.60
Air Conditioner (HP):	3.20
Acceleration Vehicle Spd (MPH):	55.0
Speed Limit on Route (MPH):	61.0
Transfer Case - Gear Ratio (Fuel Economy):	1.000
Relative Drag Coefficient:	85
Transfer Case - Gear Ratio(Start Ability):	1.000
TIRE, FRONT	2 - RADIAL NORMAL
TIRE, REAR	4 - RADIAL NORMAL

Components

0002ESA	AXLE, FRONT DRIVING {Meritor MX-14-120} Single Reduction, 14,000-lb Capacity
0004SBD	AIR COMPRESSOR {Bendix Tu-Flo 750} 16.5 CFM Capacity
0005PSL	STEERING GEAR {Sheppard M-110} Power
0008GWY	ALTERNATOR {Leece-Neville 14931PAH} Brush Type, 12 Volt 320 Amp. Capacity, Pad Mounted
0012NUW	ENGINE, DIESEL {MaxxForce 9} EPA 10, 330 HP @ 2000 RPM, 950 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed
0012THZ	FAN DRIVE {Horton Drivemaster Polar Extreme} Direct Drive Type, Two Speed, With Residual Torque Device for Disengaged Fan Speed
0013AJV	TRANSMISSION, AUTOMATIC {Allison 3000EVS_P} 4th 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
0014051	AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, With 200 Wheel Ends
0016196	CAB Conventional 6-Man Crew Cab
0016WCT	AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster
07382135413	TIRE, REAR 11R22.5 HDO (CONTINENTAL) 489 rev/mile, load range H, 16 ply 11R22.5 HDO (CONTINENTAL) 489 rev/mile, load range H, 16 ply
07382155408	TIRE, FRONT 12R22.5 HSC (CONTINENTAL) 483 rev/mile, load range H, 16 ply 12R22.5 HSC (CONTINENTAL) 483 rev/mile, load range H, 16 ply

**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: 2012

**Calculation Factors**

Wheelbase: 205  
 Front Axle: 0002ESA  
 Description: AXLE, FRONT DRIVING, {Meritor MX-14-120} Single Reduction, 14,000-lb Capacity  
 Front Wheel: 0027DMC  
 Description: WHEELS, FRONT, DISC; 22.5" Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs  
 Front Tire: 07382155408  
 Description: TIRES, 12R22.5 HSC (CONTINENTAL) 483 rev/mile, load range H, 16 ply  
 Steering Gear: 0005PSL  
 Description: STEERING GEAR, {Sheppard M-110} Power

**Turning Radius Statistics**

General Information

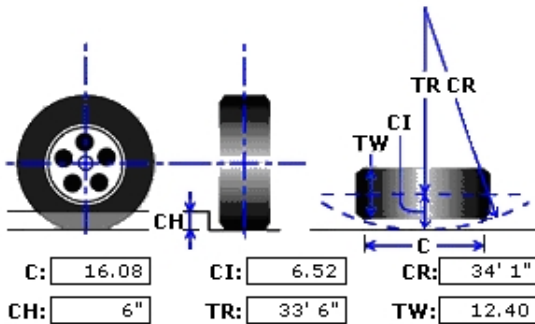
Inside Turn Angle: 38 Degrees  
 Radial Overhang: 21

Axle Information

KingPin Inclination: 7 Degrees  
 KingPin Center: 68.9

**Turning Radius - Curb View**

C - Curb Contact Length: 16.08  
 CI - Curb Clearance Increment: 6.52  
 CR - Curb Clearance Radius: 34'1"  
 CH - Curb Height: 6"  
 TR - Turning Radius: 33'6"  
 TW - Tire Width: 12.40



\* 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.