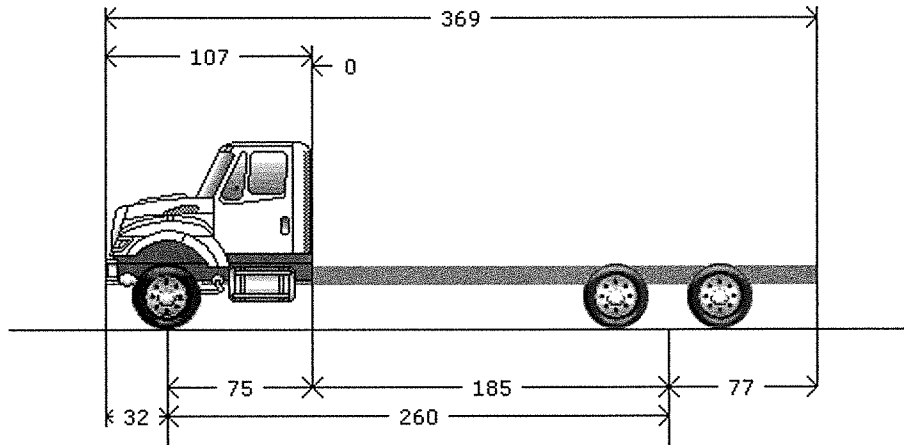


Prepared For:
 VAC-CON
 Todd Masley
 969 Hall Park Drive
 Green Cove Springs, FL 32043-4935
 (904)284 - 4200
 Reference ID: Sparks NV 350hp

Presented By:
 Maudlin International Trucks, Inc.
 Michael O'Brien
 1881 Pickettville Road
 Jacksonville FL 32220 -
 (904)783-9822



Model Profile
2015 7400 SFA 6X4 (SF525)

APPLICATION: Sewer Vac
MISSION: Requested GVWR: 64000. Calc. GVWR: 66000
 Calc. Start / Grade Ability: 17.22% / 2.05% @ 55 MPH
DIMENSION: Wheelbase: 260.00, CA: 185.00, Axle to Frame: 77.00
ENGINE, DIESEL: {Navistar N10} EPA 10, SCR, 350 HP @ 2000 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 350 Peak HP (Max)
TRANSMISSION, AUTOMATIC: {Allison 3000_RDS_P} 5th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.
CLUTCH: Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING: {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity
AXLE, REAR, TANDEM: {Meritor RT-46-164EH} Single Reduction, 46,000-lb Capacity, 200 Wheel Ends Gear Ratio: 5.38
CAB: Conventional
TIRE, FRONT: (2) 425/65R22.5 G296 MSA (GOODYEAR) 468 rev/mile, load range L, 20 ply
TIRE, REAR: (8) 11R22.5 G661 HSA (GOODYEAR) 497 rev/mile, load range G, 14 ply
SUSPENSION, REAR, TANDEM: {Hendrickson HMX-460-54} Walking Beam Type 54" Axle Spacing; 46,000-lb Capacity, With Rubber End Bushings, Transverse Torque Rods, Less Shock Absorbers
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: 9219, Winter White (Std)
 Chassis schematic N/A

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
SF52500	Base Chassis, Model 7400 SFA 6X4 with 260.00 Wheelbase, 185.00 CA, and 77.00 Axle to Frame.	7347/7073	14420
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	179/228	407
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	472/675	1147
1LLK	BUMPER, FRONT Omit Item	-88/12	-76
1WGC	WHEELBASE RANGE 228" (580cm) Through and Including 270" (685cm)	0/0	0
2ARY	AXLE, FRONT NON-DRIVING {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity	130/0	130
	<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.		
3AHU	SUSPENSION, FRONT, SPRING Multi-Stage, Taper Leaf; 20,000-lb Capacity, With Shock Absorbers	207/0	207
	<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	0/0	0
	<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 46,000-lb GAWR with Code 04091 BRAKE SYSTEM, AIR and Standard Rear Air Cam Brakes Regardless of Axle /Suspension Ordered.		
4732	DRAIN VALVE {Berg} Manual; With Pull Chain, for Air Tank	0/0	0
	<u>Includes</u> : DRAIN VALVE Mounted in Wet Tank		
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)	0/0	0
4EBT	AIR DRYER {Bendix AD-IP} With Heater	22/3	25
	<u>Includes</u>		

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
	: AIR DRYER LOCATION Inside Left Rail, Back of Cab		
4EVL	BRAKE CHAMBERS, REAR AXLE {Haldex GC3030LHDHO} 30/30 Spring Brake	0/0	0
	<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. : BRAKE CHAMBERS, SPRING (4) Rear Parking; WITH TRUCK BRAKES: All 6x4, 6x6; WITH TRACTOR BRAKES: 6x4 & 6x6 with Rear Tandem Axles 46,000-lb. or Greater or GVWR of 54,000-lb. or Greater		
4JDD	BRAKES, FRONT, AIR DISC 22.5 Diam., Includes 24" Sq. In. Brake Chambers	254/0	254
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	0/0	0
	<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.		
4SBC	AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity	0/0	0
4WEZ	BRAKE PACKAGE, FRONT {Bendix Spicer ADB22X} Air, Disc Type, Extended Service; Size 22.5"	0/0	0
5AAA	STEERING COLUMN Stationary	0/0	0
5CAL	STEERING WHEEL 2-Spoke, 18" Diam., Black	0/0	0
5PTB	STEERING GEAR (2) {Sheppard M-100/M-80} Dual Power	119/0	119
7BJX	EXHAUST SYSTEM Switchback Vertical Aftertreatment Device, Dual Cans, Frame Mounted Left & Right Side; Includes Single Vertical Tail Pipe & Guard	294/160	454
7WDL	MUFFLER/TAIL PIPE GUARD (2) Bright Stainless Steel	0/0	0
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	2/0	2
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
	<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 : JUMP START STUD Located on Positive Terminal of Outermost Battery : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : 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		

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
	: WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered		
8518	CIGAR LIGHTER Includes Ash Cup	1/0	1
8GGN	ALTERNATOR {Bosch LH160} Brush Type, 12 Volt 160 Amp. Capacity, Pad Mount	-5/0	-5
8HAA	BODY BUILDER WIRING To Rear of Frame, With Stop, Tail, Turn, and Marker Lights Circuits, Ignition Controlled Auxiliary Feed and Ground, Less Trailer Socket	2/0	2
8MEZ	BATTERY SYSTEM {International} Maintenance-Free, (2) 12-Volt 1850CCA Total	5/1	6
8RMD	RADIO AM/FM/WB/Clock/3MM Auxiliary Input, with Multiple Speakers	1/0	1
8TTR	BATTERY BOX Steel With Plastic Cover, 30" Wide, 2, 3 or 4 Battery Capacity, Mounted Right Side Under Cab	70/26	96
8VAY	HORN, ELECTRIC Disc Style	0/0	0
8WCL	HORN, AIR Black, Single Trumpet, Air Solenoid Operated	0/0	0
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade	0/0	0
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on	0/0	0
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection	0/0	0
8WWJ	INDICATOR, LOW COOLANT LEVEL With Audible Alarm	0/0	0
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, With Ignition "OFF" and any Door Opened	0/0	0
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses	0/0	0
9585	FENDER EXTENSIONS Rubber	6/0	6
9HAN	INSULATION, UNDER HOOD for Sound Abatement	10/0	10
9HBM	GRILLE Stationary, Chrome	0/0	0
9HBN	INSULATION, SPLASH PANELS for Sound Abatement	2/0	2
9WBC	FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 & 2010 Emissions	0/0	0
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100	0/0	0
	<u>Includes</u> : PAINT SCHEMATIC ID LETTERS "GM"		
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
11001	CLUTCH Omit Item (Clutch & Control)	-60/-15	-75
12851	PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted	10/0	10
12NWJ	ENGINE, DIESEL {Navistar N10} EPA 10, SCR, 350 HP @ 2000 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 350 Peak HP (Max)	0/0	0

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
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	46/-3	43
12UCV	RADIATOR Aluminum, Cross Flow, Series System; 1228 SqIn Core and 648 SqIn Charge Air Cooler	0/0	0
12UNH	FEDERAL EMISSIONS EPA, OBD and GHG Certified for Calendar Year 2014; N9 & N10 Engines	0/0	0
12VBC	AIR CLEANER Single Element <u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted	0/0	0
12VXV	THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Mobile, Variable Speed; (Range 2 to 20 MPH) Mounted on Steering Wheel	2/0	2
12VZA	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for MaxxFORCE and Navistar post 2007 Emissions Electronic Engines	0/0	0
12WZC	EMISSION COMPLIANCE 5 Min., Tamper-Proof Engine Shutdown System, Complies With California Clean Air Regulations, Does Not Certify Engine for Low-NOx Extended Idling	0/0	0
13AVR	TRANSMISSION, AUTOMATIC {Allison 3000_RDS_P} 5th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.	0/0	0
13WAW	OIL COOLER, AUTO TRANSMISSION {Modine} Water to Oil, for Allison or CEEMAT Transmission	25/0	25
13WBL	TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission	0/0	0
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints	0/0	0
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction	0/0	0
13WYR	SHIFT CONTROL PARAMETERS Allison 3000 or 4000 Series Transmissions, 5th Generation Controls, with EcoCal and Dynamic Shift Sensing (FuelSense Basic)	0/0	0
14HRB	AXLE, REAR, TANDEM {Meritor RT-46-164EH} Single Reduction, 46,000-lb Capacity, 200 Wheel Ends . Gear Ratio: 5.38 <u>Includes</u> : POWER DIVIDER LOCK Electric over Air Operated, Cab Control with Indicator Light : REAR AXLE DRAIN PLUG (2) Magnetic, For Tandem 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	0/593	593

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
14ULY	SUSPENSION, REAR, TANDEM {Hendrickson HMX-460-54} Walking Beam Type 54" Axle Spacing; 46,000-lb Capacity, With Rubber End Bushings, Transverse Torque Rods, Less Shock Absorbers <u>Includes</u> : CROSSMEMBER, SUSPENSION Stamped Steel Double Dogbone <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.	0/-610	-610
14WAL	SUSPENSION/REAR-AXLE IDENTITY for Meritor Tandem Rear Axles With Bar-Pin Beam Attachment Type Suspensions	0/0	0
15DYP	DEF TANK 9.5 U.S. Gal. 36.0L Capacity, Frame Mounted Outside Left Rail, Under Cab	74/13	87
15SJR	FUEL TANK Top Draw; Non-Polished Aluminum, 26" Diam., 100 U.S. Gal., 378 L Capacity Mounted Left Side Under Cab	50/26	76
16030	CAB Conventional <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 : 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 : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color : STEP (4) Two Steps Per Door	0/0	0
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)	0/0	0
16HGH	GAUGE, OIL TEMP, ALLISON TRAN	1/0	1
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16HLJ	GAUGE, DEF FLUID LEVEL	0/0	0
16JNT	SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, With 2 Position Front Cushion Adjust, -3 to +14 Degree Angle Back Adjust <u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type	30/9	39

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
16RPV	SEAT, PASSENGER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolated, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Back Adjust <u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type	62/18	80
16SDJ	MIRRORS (2) {Lang Mekra} Rectangular, 7.44" x 14.84" & 7.44" sq. Convex Both Sides, 102" Inside Spacing, Breakaway Type, Black Heads, Brackets & Arms	0/0	0
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	41/6	47
16WJS	INSTRUMENT PANEL Center Section, Flat Panel	0/0	0
16WKY	HVAC FRESH AIR FILTER	0/0	0
16WLE	STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door	0/0	0
16WRX	CAB INTERIOR TRIM Deluxe <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 : 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	0/0	0
16WSK	CAB REAR SUSPENSION Air Bag Type	0/0	0
27DHJ	WHEELS, FRONT DISC; 22.5" Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 12.25 DC Rims; With Steel Hubs <u>Notes</u> : Aluminum Wheels not Painted or Coated : Compatible Tire Sizes: 385/65R22.5, 425/65R22.5	-9/0	-9
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	0/-280	-280
7372138107	(8) TIRE, REAR 11R22.5 G661 HSA (GOODYEAR) 497 rev/mile, load range G, 14 ply	0/16	16

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
7752668113	(2) TIRE, FRONT 425/65R22.5 G296 MSA (GOODYEAR) 468 rev/mile, load range L, 20 ply	134/0	134
OBD001	MISCELLANEOUS 4wey - rear disc brake pkg	0/0	0
OBD002	MISCELLANEOUS 4jcc - rear disc	0/0	0
Services Section:			
40107	WARRANTY Standard for WorkStar 7300/7400 (4x2, 4x4, 6x4, 6x6), Effective with Vehicles Built January 2, 2014 or Later, CTS-2002T	0/0	0
40KMB	SERVICES, TOWING {Navistar} Service Call to 36-Month/Unlimited Mileage to the Nearest Navistar Dealer for Navistar Warrantable Failure as Contract Defined; Includes Engine Failure if Supplier Declines Tow Coverage & ESC Supplied thru Navistar; \$550 (USA) Maximum Benefit per Incident	0/0	0
40KNA	SRV CONTRACT, EXT VEH COVERAGE {Navistar} To 24-Month/100,000 Miles (160,000 km), Covers 100% Parts and Labor, Excludes Extended Warranty for Engine and Allison Transmission, for Rear Axle Rating of 52,000 lbs or less	0/0	0
Total Component Weight:		9436/7951	17387
	furnish chassis parts manual and chassis service manual	0/0	0
Total Goods Purchased:		0/0	0

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

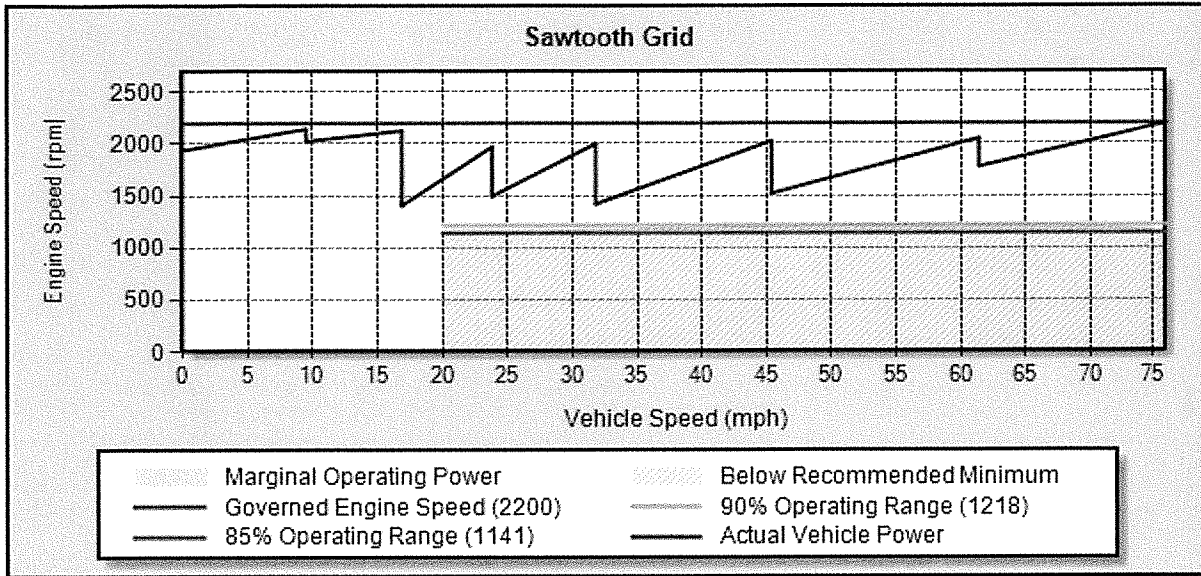
ENGINE, DIESEL (0012NWJ)

ATTACHMENTS: 0012WZC (EMISSION COMPLIANCE) 0012VXV (THROTTLE, HAND CONTROL) 0012THZ (FAN DRIVE)

<u>Parameter</u>	<u>Value</u>	<u>UOM</u>
Max Vehicle Speed:7902	75	MPH
Max Eng Speed w/Veh Spd Fault:7901	2144	N/A
Idle Shutdown Mode:7400	1, IDLE SHUTDOWN ALLOWS ACTIVE ENGINE SPEED CONTROL TO RUN	N/A
Idle Shutdown Time:7401	5	MIN
Cruise Min Vehicle Speed:7603	35	MPH
Cruise Max Vehicle Speed:7604	75	MPH
AESC Max Engine Speed:7508	2000	RPM
AESC Ramp Rate:7507	100	RPM/SEC
AESC Max Vehicle Speed:7501	5	MPH
AESC Vehicle Speed Override:7518	0, AFFECTS RPS	N/A
AESC Disable In-Cab Interface:7503	0, NO (OFF) OR DISABLE	N/A
AESC Enable Overrides:7526	1, ENABLE FEATURE OR FUNCTION	N/A
AESC In Cab Control Override:7517	0, AFFECTS RPS	N/A
AESC Park Brake Override:7515	1, NO EFFECT TO RPS	N/A
AESC Brake Override:7514	0, AFFECTS RPS	N/A
AESC Driveline Override:7516	0, AFFECTS RPS	N/A
AESC Driveline Mode:9301	0, NEUTRAL OPERATION	N/A
Remote Pedal - Enable:7504	0, NO (OFF) OR DISABLE	N/A
Remote Pedal - Return To 0 Req:7513	1, RETURN TO ZERO FUNCTIONALITY NOT REQUIRED	N/A
Remote Pedal - Enable Override:7525	1, ENABLE FEATURE OR FUNCTION	N/A
Remote Pedal - Brake Override:7520	0, AFFECTS RPS	N/A
Remote Pedal - VS Kickout En:9102	0, AFFECTS RPS	N/A
Remote Pedal - In-Cab Override:7523	0, AFFECTS RPS	N/A
Remote Pedal - Park Brake Ovr:7521	1, NO EFFECT TO RPS	N/A
Remote Pedal - Driveline OVRD:7522	0, AFFECTS RPS	N/A
Service Interval Indicator:9500	1, ACTIVATE PARAMETER	N/A
Service Interval - Distance:9503	12000	MILES
Service Interval - Run Time:9502	450.0	HOURS
Service Interval - Fuel Used:9501	1500	GALLONS
Customer Password:8700	0000	N/A

These Electronic Parameters have not been finalized

ENGINE/TRANSMISSION MATCHING



Sawtooth Details

Gear	Trans Ratio	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	3.49	0.0	1938	9.5	2143	N/A	93	81	
2C	1.86	9.5	2023	16.9	2127	N/A	93	81	
2L	1.86	16.9	1404	23.8	1970	N/A	93	81	
3L	1.41	23.8	1493	31.8	2001	N/A	93	81	
4L	1.00	31.8	1419	45.4	2025	N/A	93	81	
5L	0.75	45.4	1519	61.4	2051	N/A	93	81	
6L	0.65	61.4	1777	76.0	2200	N/A	93	81	

STEADY STATE PERFORMANCE

Performance Results	Gear	Veh Spd (mph)	Eng Spd (rpm)	Fuel Econ (mpg)	Grade (%)	Notes
LEVEL ROAD MAXIMUM SPEED	6L	76.5	2217	4.98	0.00	
HI GEAR SPEED @ RATED RPM	6L	75.9	2200	5.03	0.19	
55.0 MPH STEADY-STATE	6L	55.0	1593	7.81	2.05	
TYPICAL OPERATING SPEED	6L	70.0	2028	5.84	0.90	- 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 : 1.10 GALS/HR @ 800.0 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	4.64	7.21	7.33	
AVERAGE MPH	18.8	39.6	54.6	
MISSION MINUTES	30.11	52.24	173.42	

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

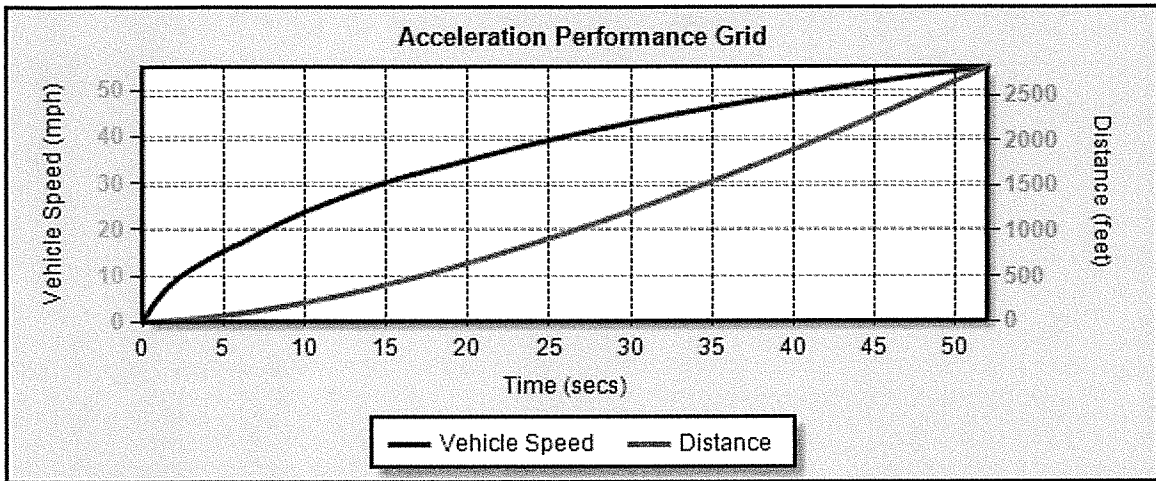
Gear	Trans Ratio	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes Msg
1C	3.49	0.0	1938	0.00	30.88	STALL
		6.0	2046	212.74	20.57	70% EFF
		7.8	2087	233.69	17.22	80% EFF
2C	1.86	9.5	2143	237.76	14.21	
		9.5	2023	195.10	11.50	
2L	1.86	16.9	2127	238.64	7.59	
		16.9	1404	277.96	8.97	
3L	1.41	23.8	1970	312.87	7.00	
		23.8	1493	294.81	6.55	
4L	1.00	31.8	2001	310.70	4.92	
		31.8	1419	279.46	4.34	
5L	0.75	45.4	2025	302.33	2.91	
		45.4	1519	292.57	2.78	
6L	0.65	61.4	2051	286.64	1.45	
		64.4	2151	259.44	1.00	
		61.4	1777	298.74	1.56	
		69.3	2006	291.14	1.00	
		73.4	2125	258.82	0.50	
		76.0	2200	237.64	0.19	RATED RPM
		76.5	2217	216.21	0.00	LEVEL ROAD

STARTING / TOP GEAR PERFORMANCE

Gear	Trans Ratio	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes Msg
1C	3.49	0.0		0.00	30.88	STALL
		7.8		233.69	17.22	80% EFF - Calculated Start Ability

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 52.04 (SECS)

Acceleration Performance Details

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes	
1C	0.19	0.1	1.0		
	0.37	0.5	2.0		
	0.56	1.2	3.0		
	0.75	2.2	4.0		
	0.97	3.7	5.0		
	1.20	5.5	6.0		
	1.45	7.9	7.0		
	1.74	11.0	8.0		
	2.05	14.9	9.0		
	2C	2.21	17.1	9.5	
		2.64	23.5	10.5	
		3.09	30.7	11.5	
		3.57	39.0	12.5	
		4.06	48.5	13.5	
		4.59	59.2	14.5	
5.14		71.3	15.5		
2L	5.73	85.1	16.5		
	6.02	92.2	16.9		
	6.56	106.1	17.9		
	7.11	120.9	18.9		
	7.66	136.7	19.9		
	8.24	154.1	20.9		
	8.86	173.5	21.9		
3L	9.51	194.8	22.9		
	10.07	214.0	23.8		
	10.80	240.0	24.8		
	11.53	267.3	25.8		
	12.29	296.6	26.8		
	13.09	328.4	27.8		
	13.92	362.9	28.8		
	14.79	400.2	29.8		
	15.70	440.5	30.8		

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes
	16.65	483.9	31.8	
4L	16.72	487.5	31.8	
	17.81	539.2	32.8	
	18.91	592.6	33.8	
	20.00	647.9	34.8	
	21.10	705.0	35.8	
	22.23	764.8	36.8	
	23.39	828.5	37.8	
	24.60	896.5	38.8	
	25.86	969.0	39.8	
	27.16	1046.2	40.8	
	28.51	1128.3	41.8	
	29.92	1215.6	42.8	
	31.38	1308.4	43.8	
	32.90	1407.1	44.8	
5L	33.84	1469.8	45.4	
	35.54	1583.9	46.4	
	37.24	1701.3	47.4	
	38.97	1823.0	48.4	
	40.76	1951.1	49.4	
	42.61	2086.8	50.4	
	44.54	2230.8	51.4	
	46.54	2383.3	52.4	
	48.62	2545.0	53.4	
	50.79	2716.5	54.4	
	52.04	2817.1	55.0	

REQUIRED TCAPE INFORMATION

TCAPE Factors For Vehicle

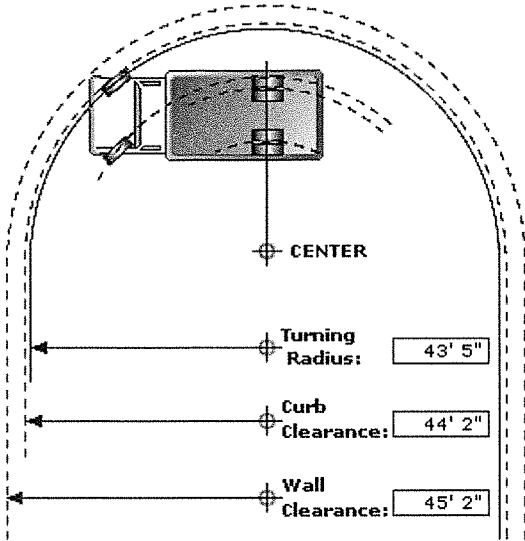
Selected Rear Axle Gear Ratio(s):	5.38
Vehicle Vocation:	GENERAL ON HIGHWAY
Road Surface Type:	TYPICAL
Enroute PTO:	NO
Transmission Mode:	Performance
Fuel Economy Route:	Normal Route - City, Suburban, and Highway
Engine Fan Type:	TWO SPEED TYPE
ID Wheel Slip Conditions:	Yes
Parked PTO:	NO
Road Governor/Cruise Ctrl:	No
Acceleration Grade (%):	0.0
Alternator (A):	40
Vehicle Width (IN):	96
Frontal Area (FT2):	76
Air Compressor (HP):	2.20
Acceleration Vehicle Spd (MPH):	55.0
Vehicle Height (IN):	114
Relative Drag Coefficient:	85
Steering Gear (HP):	2.60
Air Conditioner (HP):	3.20
Weight on Drive Axle (LBF):	46000
Speed Limit on Route (MPH):	61.0
TIRE, FRONT	2 - RADIAL WIDEBASE
TIRE, REAR	8 - RADIAL NORMAL

Components

0002ARY	AXLE, FRONT NON-DRIVING {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity
0004SBC	AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity
0005PTB	STEERING GEAR (2) {Sheppard M-100/M-80} Dual Power
0008GGN	ALTERNATOR {Bosch LH160} Brush Type, 12 Volt 160 Amp. Capacity, Pad Mount
0012NWJ	ENGINE, DIESEL {Navistar N10} EPA 10, SCR, 350 HP @ 2000 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 350 Peak HP (Max)
0012THZ	FAN DRIVE {Horton Drivemaster Polar Extreme} Direct Drive Type, Two Speed, With Residual Torque Device for Disengaged Fan Speed
0013AVR	TRANSMISSION, AUTOMATIC {Allison 3000_RDS_P} 5th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.
0014HRB	AXLE, REAR, TANDEM {Meritor RT-46-164EH} Single Reduction, 46,000-lb Capacity, 200 Wheel Ends
0016030	CAB Conventional
0016WCT	AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster
07372138107	TIRE, REAR 11R22.5 G661 HSA (GOODYEAR) 497 rev/mile, load range G, 14 ply 11R22.5 G661 HSA (GOODYEAR) 497 rev/mile, load range G, 14 ply
07752668113	TIRE, FRONT 425/65R22.5 G296 MSA (GOODYEAR) 468 rev/mile, load range L, 20 ply 425/65R22.5 G296 MSA (GOODYEAR) 468 rev/mile, load range L, 20 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: SF525
 Description: 7400 SFA 6X4
 Model Year: 2015

Calculation Factors

Wheelbase: 260
 Front Axle: 0002ARY
 Description: AXLE, FRONT NON-DRIVING, {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity
 Front Wheel: 0027DHJ
 Description: WHEELS, FRONT, DISC; 22.5" Polished Aluminum, 10-Stub (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 12.25 DC Rims; With Steel Hubs
 Front Tire: 07752668113
 Description: TIRES, 425/65R22.5 G296 MSA (GOODYEAR) 468 rev/mile, load range L, 20 ply
 Steering Gear: 0005PTB
 Description: STEERING GEAR, (2) {Sheppard M-100/M-80} Dual Power

Turning Radius Statistics

General Information

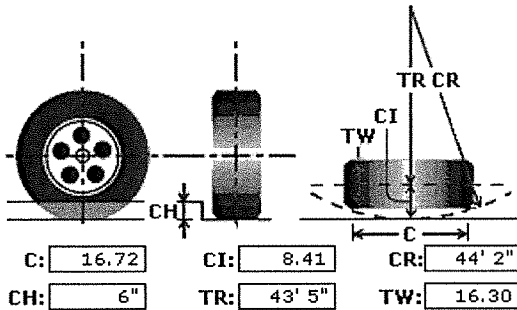
Inside Turn Angle: 35 Degrees
 Radial Overhang: 21

Axle Information

KingPin Inclination: 6.25 Degrees
 KingPin Center: 71

Turning Radius - Curb View

C - Curb Contact Length: 16.72
 CI - Curb Clearance Increment: 8.41
 CR - Curb Clearance Radius: 44'2"
 CH - Curb Height: 6"
 TR - Turning Radius: 43'5"
 TW - Tire Width: 16.30



* 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.