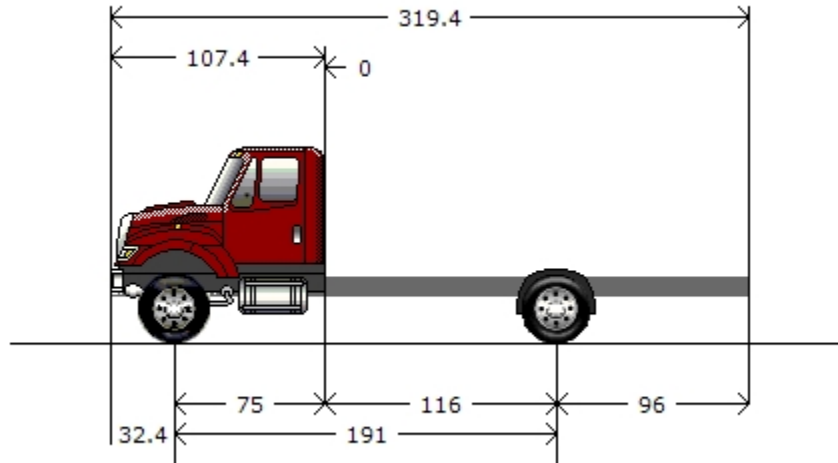


Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.



**Model Profile**  
**2025 HV507 SFA (HV507)**

<b>AXLE CONFIG:</b>	4X4
<b>APPLICATION:</b>	Fire/Pumper
<b>MISSION:</b>	Requested GVWR: 46000. Calc. GVWR: 46000. Calc. GCWR: 80000 Calc. Start / Grade Ability: 25.70% / 3.16% @ 55 MPH Calc. Geared Speed: 67.3 MPH
<b>DIMENSION:</b>	Wheelbase: 191.00, CA: 116.00, Axle to Frame: 96.00
<b>ENGINE, DIESEL:</b>	{Cummins L9 380} EPA 2024, 380HP @ 2100 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 380 Peak HP (Max), (RATED FOR EMERGENCY VEHICLES ONLY)
<b>TRANSMISSION, AUTOMATIC:</b>	{Allison 3000 EVS} 6th Generation Controls, Close Ratio, 5-Speed with Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, Max, GVW N/A
<b>CLUTCH:</b>	Omit Item (Clutch & Control)
<b>AXLE, FRONT DRIVING:</b>	{Meritor MX-16-120} Single Reduction, 16,000-lb Capacity, with Hub Piloted Wheel Mounting
<b>AXLE, REAR, SINGLE:</b>	{Meritor RS-30-185} Single Reduction, 30,000-lb Capacity, T Wheel Ends Gear Ratio: 5.38
<b>CAB:</b>	Conventional, Day Cab
<b>TIRE, FRONT:</b>	(2) 315/80R22.5 Load Range L XDN2 (MICHELIN), 486 rev/mile, 75 MPH, Drive
<b>TIRE, REAR:</b>	(4) 315/80R22.5 Load Range L XDN2 (MICHELIN), 486 rev/mile, 75 MPH, Drive
<b>SUSPENSION, REAR, SINGLE:</b>	31,000-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs
<b>FRAME REINFORCEMENT:</b>	Full Outer C-Channel, Heat Treated Alloy Steel (120,000 PSI Yield), 10.813" x 3.892" x 0.312" (274.6mm x 98.8mm x 7.9mm), 480.0" (12192mm) OAL
<b>PAINT:</b>	Cab schematic 100WK Location 1: 2304, Red (Prem) Chassis schematic N/A

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
Base Chassis, Model HV507 SFA with 191.00 Wheelbase, 116.00 CA, and 96.00 Axle to Frame.	5783/3857	9640

### AXLE CONFIGURATION

AXLE CONFIGURATION {Navistar} 4x4	180/-103	77
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#### Notes

: Pricing may change if axle configuration is changed.

### ENGINE

ENGINE, DIESEL {Cummins L9 380} EPA 2024, 380HP @ 2100 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 380 Peak HP (Max), (RATED FOR EMERGENCY VEHICLES ONLY)	560/4	564
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EMISSION, CALENDAR YEAR {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2024	0/0	0
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CARB EMISSION WARR COMPLIANCE Does Not Comply with CARB Emission Warranty	0/0	0
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CARB IDLE COMPLIANCE Does Not Comply with California Clean Air Idle Regulations	0/0	0
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EPA IDLE COMPLIANCE Low NOx Idle Engine, Complies with EPA Clean Air Regulations; Includes "Certified Clean Idle" Decal on Hood	0/0	0
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RADIATOR Aluminum, Cross Flow, Front to Back System, 1228 SqIn, with 1167 SqIn Charge Air Cooler, Includes In-Tank Oil Cooler	23/-5	18
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#### Includes

: DEAERATION SYSTEM with Surge Tank

: HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps

: RADIATOR HOSES Premium, Rubber

FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed	0/0	0
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#### Includes

: FAN Nylon

AIR CLEANER Single Element	0/0	0
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ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	0/0	0
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ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls and Starter Lockout, with Ignition Switch Control, for Cummins B6.7 and L9 Engines	0/0	0
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THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel	0/0	0
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### TRANSMISSION

TRANSMISSION, AUTOMATIC {Allison 3000 EVS} 6th Generation Controls, Close Ratio, 5-Speed with Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, Max, GVW N/A	211/72	283
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ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS), Fire/Pumper, Tank, Aerial/Ladder, Package Number 198, Includes J1939 Based Auto Neutral	0/0	0
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OIL COOLER, TRANSMISSION {Modine} Water to Oil Type	25/0	25
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OIL COOLER, TRANSFER CASE with Oil Coolant Lines Routed to Oil Cooler	6/1	7
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PROVISION FOR PTO Top Mount; with Allison 3000 Transmission	0/0	0
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PTO LOCATION Customer Intends to Install PTO at Left Side of Transmission	0/0	0
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SHIFT CONTROL PARAMETERS {Allison} 3000 or 4000 Series Transmissions, Performance Programming	0/0	0
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<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
TRANSFER CASE {Meritor MTC-4210} 2-Speed, 10,000 lb-ft Torque Rating, with PTO Provision, Electric Over Air Control, with Lube Pump	364/424	788
TRANSMISSION OIL Synthetic; 29 thru 42 Pints	0/0	0
TRANSMISSION SHIFT CONTROL Column Mounted Stalk Shifter, Not for Use with Allison 1000 & 2000 Series Transmission	1/0	1
<b>CLUTCH</b>		
CLUTCH Omit Item (Clutch & Control)	0/0	0
<b>REAR AXLES, SUSPENSIONS</b>		
AXLE, REAR, SINGLE {Meritor RS-30-185} Single Reduction, 30,000-lb Capacity, T Wheel Ends . Gear Ratio: 5.38	0/287	287
<u>Notes</u> : Axle Lead Time is 60 Days		
SUSPENSION, REAR, SINGLE 31,000-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs	0/132	132
SHOCK ABSORBERS, REAR (2)	0/45	45
<b>FRONT AXLES</b>		
AXLE, FRONT DRIVING {Meritor MX-16-120} Single Reduction, 16,000-lb Capacity, with Hub Piloted Wheel Mounting	1052/0	1052
<u>Notes</u> : Axle Lead Time is 90 Days		
<b>FRONT SUSPENSIONS</b>		
SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 16,000-lb Capacity, with Shock Absorbers	44/0	44
<b>CABS, COWLS, BODIES</b>		
CAB Conventional, Day Cab	0/0	0
ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab and Extended Cab	0/0	0
AIR CONDITIONER with Integral Heater and Defroster	0/0	0
ARM REST, LEFT, PASSENGER SEAT	3/0	3
ARM REST, RIGHT, DRIVER SEAT	3/0	3
CAB INTERIOR TRIM Classic, for Day Cab	0/0	0
<u>Includes</u> : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and CB Radio Pocket; Located Above Driver and Passenger : DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Overhead Console, Center Mounted : SUN VISOR (2) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Toll Ticket Strap		
CAB, INTERIOR TRIM, CLOSEOUT Under IP, Driver Side	0/0	0

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
CAB REAR SUSPENSION Air Bag Type	0/0	0
CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator	12/0	12
GAUGE CLUSTER Base Level; English with English Electronic Speedometer	0/0	0
<u>Includes</u>		
: GAUGE CLUSTER DISPLAY: Base Level (3" Monochromatic Display), Premium Level (5" LCD Color Display); Odometer, Voltmeter, Diagnostic Messages, Gear Indicator, Trip Odometer, Total Engine Hours, Trip Hours, MPG, Distance to Empty/Refill for		
: GAUGE CLUSTER Speedometer, Tachometer, Engine Coolant Temp, Fuel Gauge, DEF Gauge, Oil Pressure Gauge, Primary and Secondary Air Pressure		
: WARNING SYSTEM Low Fuel, Low DEF, Low Oil Pressure, High Engine Coolant Temp, Low Battery Voltage (Visual and Audible), Low Air Pressure (Primary and Secondary)		
GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} Mounted in Instrument Panel	2/0	2
GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission	1/0	1
GRAB HANDLE, EXTERIOR (2) Chrome, Towel Bar Type, with Anti-Slip Rubber Inserts, for Cab Entry Mounted Left and Right Side at B-Pillar	6/0	6
GRAB HANDLE, CAB INTERIOR (2) Safety Yellow	0/0	0
INSTRUMENT PANEL Flat Panel	0/0	0
IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
MIRRORS (2) C-Loop, Power Adjust, Heated, LED Clearance Lights, Bright Heads and Arms, 7.5" x 14" Flat Glass, Includes 7.5" x 7" Convex Mirrors, for 102" Load Width	0/0	0
<u>Notes</u>		
: Mirror Dimensions are Rounded to the Nearest 0.5"		
MONITOR, TIRE PRESSURE Omit	-9/-2	-11
SEAT BELT All Red; 1 to 3	0/0	0
SEAT, DRIVER {H.O. Bostrom Sierra Air 100} NFPA Compliant, Air Suspension, High Back, Vinyl with Covered Back and International Logo on Headrest, for Fire Truck	10/3	13
SEAT, PASSENGER {H.O. Bostrom Sierra Air 100} NFPA Compliant, Air Suspension, High Back, Vinyl with Covered Back, International Logo on Headrest, for Fire Truck	75/32	107
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 1 to 3 Seat Belts	0/0	0
WINDOW, MANUAL (2) and Manual Door Locks, Left and Right Doors	0/0	0
<b>FRAMES</b>		
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	-25/345	320
FRAME REINFORCEMENT Full Outer C-Channel, Heat Treated Alloy Steel (120,000 PSI Yield), 10.813" x 3.892" x 0.312" (274.6mm x 98.8mm x 7.9mm), 480.0" (12192mm) OAL	333/676	1009
BUMPER, FRONT Contoured, Stainless Steel, Polished	-25/3	-22
CROSSMEMBER, REAR, AF (1)	-6/26	20
FRAME DIMPLE Dimple on Left and Right Top Flange of Frame Rail to Reference Rear Axle Centerline	0/0	0
TOW HOOK, FRONT (2) Frame Mounted	8/0	8

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
WHEELBASE RANGE 181" (460cm) Through and Including 205" (520cm)	183/-183	0

**BRAKES**

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		
: 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		
: SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6		
AIR BRAKE ABS {Bendix AntiLock Brake System} 4-Channel (4 Sensor/4 Modulator) Electronic Stability Program, with Automatic Traction Control	5/3	8
BRAKE, PARKING Manual Push-Pull Pneumatic Parking Brake	1/0	1
BRAKES, FRONT {Meritor 16.5X6 Q-PLUS CAST} Air S-Cam Type, Cast Spider, Fabricated Shoe, Double Anchor Pin, Size 16.5" X 6", 23,000-lb Capacity	33/0	33
BRAKE CHAMBERS, FRONT AXLE {MGM} 24 SqIn	5/0	5
SLACK ADJUSTERS, FRONT {Haldex} Automatic	14/0	14
DUST SHIELDS, FRONT BRAKE for Air Cam Brakes	10/0	10
BRAKES, REAR {Meritor 16.5X7 P} Air S-Cam Type, Cast Spider, Cast Shoe, Double Anchor Pin, Includes Greaseable and Zinc Coated Anchor Pins, Size 16.5" X 7", 38,000-lb Capacity per Axle	0/106	106
BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 SqIn Spring Brake	0/7	7
SLACK ADJUSTERS, REAR {Haldex} Automatic	0/16	16
DUST SHIELDS, REAR BRAKE for Air Cam Brakes	0/10	10
AIR COMPRESSOR {Cummins} 18.7 CFM	0/0	0
AIR DRYER {Bendix AD-9} with Heater	18/10	28
AIR DRYER LOCATION Mounted Inside Left Rail, Behind Transfer Case Mounting	4/6	10
AIR TANK LOCATION (2) : One Mounted Under Each Rail, Front of Rear Suspension, Parallel to Rail	-32/52	20
DRAIN VALVE {Bendix DV-2} Automatic, with Heater, for Air Tank	2/0	2

**STEERING**

STEERING GEAR {Sheppard M110} Power	43/-2	41
STEERING COLUMN Tilting and Telescoping	16/3	19
STEERING WHEEL 4-Spoke; 18" Dia., Black	0/0	0

**DRIVELINES**

DRIVELINE SYSTEM {Dana Spicer} SPL170 Main Driveline, 1710 Driveline to Transfer Case, SPL140 Driveline to Front Axle, for 4x4	7/31	38
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**EXHAUST SYSTEMS**

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
EXHAUST SYSTEM Horizontal Aftertreatment System, Frame Mounted Right Side Under Cab, for Single Short Horizontal Tail Pipe, Frame Mounted Right Side Back of Cab, for All-Wheel Drive	57/-1	56
AFTERTREATMENT COVER Steel, Black	10/3	13
ENGINE COMPRESSION BRAKE {Jacobs} for Cummins ISL/L9 Engines; with Selector Switch and On/Off Switch	41/7	48
SWITCH, FOR EXHAUST 3 Position, Momentary, Lighted Momentary, ON/CANCEL, Center Stable, INHIBIT REGEN, Mounted in IP Inhibits Diesel Particulate Filter Regeneration When Switch is Moved to ON While Engine is Running, Resets When Ignition is Turned OFF	2/0	2
<b><u>ELECTRICAL SYSTEMS</u></b>		
ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
<u>Includes</u>		
: DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab		
: HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel		
: HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever		
: 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		
ALTERNATOR {Leece-Neville BLP4006HN} Brushless, 12 Volt, 325 Amp Capacity, Pad Mount, with Remote Sense	17/0	17
ANTENNA for Increased Roof Clearance Applications	1/0	1
BATTERY BOX Steel, with Aluminum Cover, 14" Wide, 2-3 Battery Capacity, Mounted Left Side Under Cab	-12/6	-6
BATTERY DISCONNECT SWITCH for Cab Power Disconnect Switch, Disconnects Power to Power Distribution Center (PDC) and Body Builder Through Solenoid, Does Not Disconnect Charging Circuits, Locks with Padlock, Cab Mounted	11/2	13
BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 1980CCA Total, Top Threaded Stud	26/27	53
BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Sleeper, 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	2/0	2
CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	0/0	0
CIGAR LIGHTER Includes Ash Cup	1/0	1
CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade	0/0	0
DATA RECORDER Includes Display Mounted in Overhead Console	2/0	2
HEADLIGHTS Halogen	0/0	0
HORN, AIR Single Trumpet, Black, with Lanyard Pull Cord	3/0	3
HORN, ELECTRIC (2) Disc Style	1/0	1
IGNITION SWITCH Keyless	2/0	2

<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
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	1/0	1
INDICATOR, LOW COOLANT LEVEL with Audible Alarm	0/0	0
POWER SOURCE Cigar Type Receptacle without Plug and Cord	1/0	1
POWER SOURCE, ADDITIONAL Auxiliary Power Outlet (APO) with USB-A Port and USB-C Port, Located in the Instrument Panel	0/0	0
POWER SOURCE, TERMINAL TYPE 2-Post	1/0	1
RADIO Omit, Includes Wiring and Antenna	0/0	0
SPEAKERS Omit	0/0	0
STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt, Less Thermal Over-Crank Protection	8/1	9
TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0
TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender	0/0	0
<b>FRONT END</b>		
FRONT END Tilting, Fiberglass, with Three Piece Construction, for WorkStar/HV	0/0	0
FENDER EXTENSIONS Rubber	6/0	6
GRILLE Stationary, Chrome	0/0	0
GRILLE EMBER SCREEN Mounted to Grille and Cowl Tray to Keep Hot Embers out of Engine and HVAC Air Intake System	3/0	3
INSULATION, SPLASH PANELS for Sound Abatement	2/0	2
LOGOS EXTERIOR Model Badges, Shipped Loose, Located in Cab	0/0	0
LOGOS EXTERIOR, ENGINE Badge Shipped Loose	0/0	0
<b>SPEEDOMETER, TOOLS, MISC</b>		
COMMUNICATIONS MODULE Telematics Device with Over the Air Programming; Includes Five Year Data Plan and International 360	1/0	1
KEYS - ALL ALIKE, ID I-1003 Compatible with Z-001	0/0	0
PAINT SCHEMATIC, PT-1 Single Color, Design 100	0/0	0
<u>Includes</u> : PAINT SCHEMATIC ID LETTERS "WK"		
PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	0/0	0
PROMOTIONAL PACKAGE Government Silver Package	0/0	0
PAINT CLASS Premium Color	0/0	0
<b>FUEL TANKS</b>		
FUEL TANK Top Draw, Non-Polished Aluminum, 24" Dia, 50 US Gal (189L), Mounted Left Side, Under Cab	30/4	34
DEF TANK 5 US Gal (19L) Capacity, Frame Mounted Outside Left Rail, Under Cab	0/17	17
FUEL COOLER Less Thermostat; Mounted in Front of Cooling Module	14/0	14

**Description**

	<b><u>F/R Wt</u></b>	<b><u>Tot Wt</u></b>
	(lbs)	(lbs)
FUEL/WATER SEPARATOR {Racor 400 Series} 12 VDC Electric Heater, Includes Pre-Heater, with Primer Pump, Includes Water-in-Fuel Sensor, Mounted on Engine	-1/-4	-5

**WHEELS, TIRES - FRONT**

WHEELS, FRONT {Accuride 41730} DISC; 22.5x9.00 Rims, Extra Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	-28/0	-28
(2) TIRE, FRONT 315/80R22.5 Load Range L XDN2 (MICHELIN), 486 rev/mile, 75 MPH, Drive	84/0	84

**WHEELS, TIRES - REAR**

WHEELS, REAR {Accuride 41730} DUAL DISC; 22.5x9.00 Rims, Extra Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	0/-56	-56
(4) TIRE, REAR 315/80R22.5 Load Range L XDN2 (MICHELIN), 486 rev/mile, 75 MPH, Drive	0/168	168

**BODY INTEGRATION**

BDY INTG, I/O EXP HARNESS {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	0/0	0
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Cab schematic 100WK

Location 1: 2304, Red (Prem)

Chassis schematic N/A

**Services Section:**

**WARRANTY**

WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A	0/0	0
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<b>Total Component Weight:</b>	<b>9232/6030</b>	<b>15262</b>
	(lbs)	(lbs)
	(lbs)	(lbs)

PDI & SPECIAL PROGRAMMING	0/0	0
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(2) Hood Mounted Air Horns w/ "Y" Lanyard and Foot Switches	0/0	0
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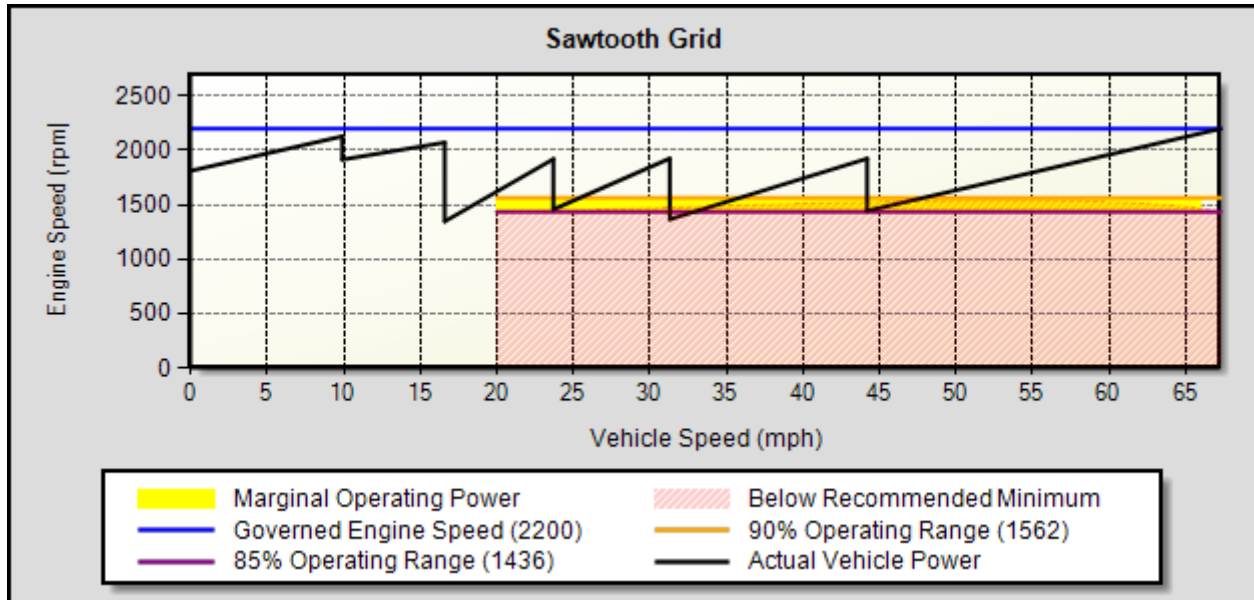
Exhaust Extension to exit in front of the right rear wheels	0/0	0
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<b>Total Goods Purchased:</b>	<b>0/0</b>	<b>0</b>
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The weight calculations included in this proposal are an estimate of future vehicle 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/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	1813	9.9	2130	N/A	53	41	
2C-2	1.86	1.00	9.9	1916	16.6	2073	N/A	53	41	
2L-2	1.86	1.00	16.6	1347	23.7	1921	N/A	53	41	
3L-2	1.41	1.00	23.7	1457	31.3	1926	N/A	53	41	
4L-2	1.00	1.00	31.3	1366	44.2	1925	N/A	53	41	
5L-2	0.75	1.00	44.2	1444	67.3	2200	N/A	53	41	

## STEADY STATE PERFORMANCE

Performance Results	Gear	Veh Spd (mph)	Eng Spd (rpm)	Fuel Econ (mpg)	Grade (%)	Notes
LEVEL ROAD MAXIMUM SPEED	5L-2	69.8	2280	*****	0.00	
HI GEAR SPEED @ RATED RPM	5L-2	67.3	2200	*****	1.75	
55.0 MPH STEADY-STATE	5L-2	55.0	1798	*****	3.16	
TYPICAL OPERATING SPEED	5L-2	60.0	1961	*****	2.55	- 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-421 STALL RATIO: 1.77

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

Key Fuel Economy Information	City	Suburban	Highway	Notes
MILES PER GALLON	*****	*****	*****	
AVERAGE MPH	19.0	39.9	54.6	
MISSION MINUTES	29.70	51.88	173.32	

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	1813	0.00	44.52	STALL
			6.4	1962	237.38	30.50	70% EFF
			8.6	2058	270.95	25.70	80% EFF
			9.9	2130	282.60	23.07	
2C-2	1.86	1.00	9.9	1916	209.27	16.65	
			16.6	2073	273.83	12.63	
2L-2	1.86	1.00	16.6	1347	263.44	12.11	
			23.7	1921	336.37	10.65	
3L-2	1.41	1.00	23.7	1457	283.34	8.80	
			31.3	1926	333.73	7.62	
4L-2	1.00	1.00	31.3	1366	263.66	5.79	
			44.2	1925	328.62	4.75	
5L-2	0.75	1.00	44.2	1444	269.61	3.66	
			67.3	2200	304.80	1.75	RATED RPM
			68.4	2234	250.07	1.00	
			69.1	2257	211.60	0.50	
			69.8	2280	173.69	0.00	LEVEL ROAD

## STARTING / TOP GEAR PERFORMANCE

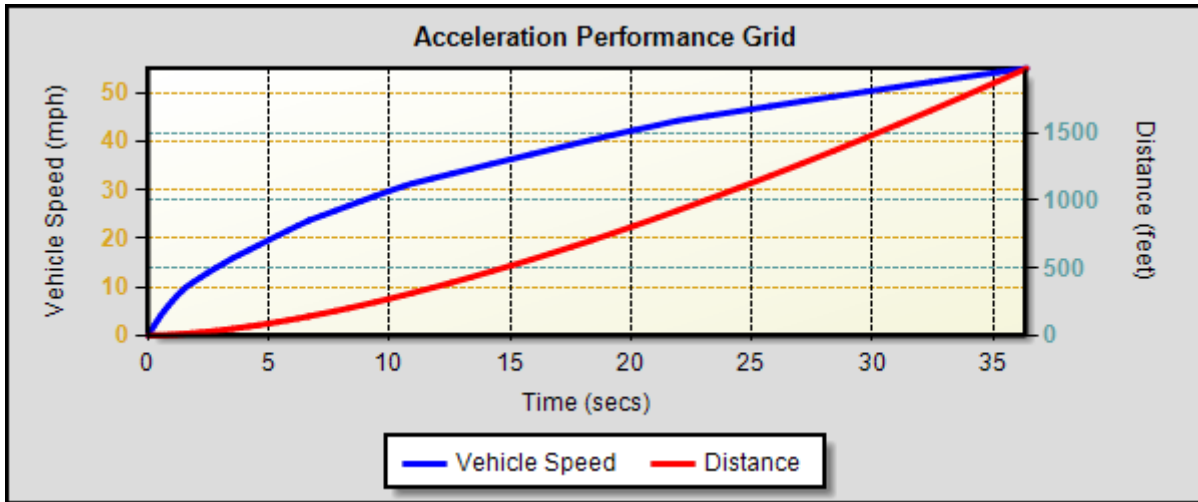
Gear	Trans Ratio	Multi Speed	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes Msg
1C-1	3.49	2.06	0.0		0.00	45.65	@ STALL
			4.2		216.66	45.65	@ 80% EFF
1C-2	3.49	1.00	0.0		0.00	44.52	STALL
			8.6		270.95	25.70	80% EFF - Calculated Start Ability - Calculated Start Ability
5L-1	0.75	2.06	35.1		48.96	0.00	LEVEL ROAD
			32.7		314.18	6.75	RATED RPM
5L-2	0.75	1.00	69.8		173.69	0.00	LEVEL ROAD
			67.3		304.80	1.75	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 36.38 (SECS)

**Acceleration Performance Details**

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes
1C	0.13	0.1	1.0	
	0.26	0.4	2.0	
	0.39	0.9	3.0	
	0.52	1.6	4.0	
	0.67	2.5	5.0	
	0.83	3.8	6.0	
	1.00	5.4	7.0	
	1.18	7.4	8.0	
2C	1.38	9.9	9.0	
	1.57	12.5	9.9	
	1.86	17.0	10.9	
	2.17	22.1	11.9	
	2.48	27.8	12.9	
	2.81	34.3	13.9	
	3.16	41.5	14.9	
2L	3.51	49.6	15.9	
	3.79	56.2	16.6	
	4.19	66.2	17.6	
	4.59	76.8	18.6	
	4.99	87.9	19.6	
	5.39	99.7	20.6	
	5.79	112.2	21.6	
3L	6.21	125.7	22.6	
	6.64	140.5	23.6	
	6.68	141.9	23.7	
	7.22	161.1	24.7	
	7.76	181.1	25.7	
	8.31	201.9	26.7	
	8.85	223.5	27.7	
	9.40	246.2	28.7	
	9.96	270.5	29.7	
	10.56	296.7	30.7	

<b>Gear</b>	<b>Time (secs)</b>	<b>Distance (feet)</b>	<b>Speed (mph)</b>	<b>Notes</b>
4L	10.95	314.6	31.3	
	11.76	352.5	32.3	
	12.58	391.8	33.3	
	13.39	432.4	34.3	
	14.21	474.4	35.3	
	15.04	517.7	36.3	
	15.87	562.4	37.3	
	16.70	608.5	38.3	
	17.53	656.1	39.3	
	18.38	705.5	40.3	
	19.25	757.6	41.3	
	20.15	813.1	42.3	
	21.09	872.0	43.3	
	5L	21.89	923.6	44.2
23.17		1007.4	45.2	
24.46		1093.7	46.2	
25.76		1182.6	47.2	
27.07		1274.2	48.2	
28.39		1368.3	49.2	
29.72		1465.2	50.2	
31.06		1564.9	51.2	
32.41		1667.5	52.2	
33.78		1773.1	53.2	
35.18		1883.5	54.2	
36.38	1979.6	55.0		

## REQUIRED TCAPE INFORMATION

TCAPE Factors For Vehicle

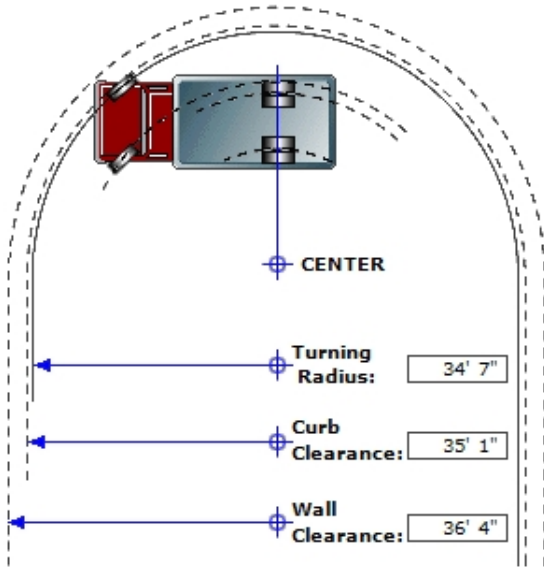
Selected Rear Axle Gear Ratio(s):	5.38
Engine Fan Type:	VISCOUS
Parked PTO:	NO
Enroute PTO:	NO
ID Wheel Slip Conditions:	Yes
Road Governor/Cruise Ctrl:	No
Road Surface Type:	TYPICAL
Fuel Economy Route:	Normal Route - City, Suburban, and Highway
Vehicle Vocation:	MODERATE ON/OFF HIGHWAY
Acceleration Grade (%):	0.0
Frontal Area (FT <sup>2</sup> ):	76
Speed Limit on Route (MPH):	61.0
Relative Drag Coefficient:	85
Transfer Case - Gear Ratio (Grade Ability):	1.000
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):	110
Weight on Drive Axle (LBF):	30000
Acceleration Vehicle Spd (MPH):	55.0
Ambient Temperature (F):	70.0
Air Compressor (HP):	2.20
Transfer Case - Gear Ratio (Fuel Economy):	1.000
TIRE, FRONT	2 - RADIAL LOWPROFILE
TIRE, REAR	4 - RADIAL LOWPROFILE

Components

0001ANB	AXLE CONFIGURATION {Navistar} 4x4
0002ERX	AXLE, FRONT DRIVING {Meritor MX-16-120} Single Reduction, 16,000-lb Capacity, with Hub Piloted Wheel Mounting
0004SPA	AIR COMPRESSOR {Cummins} 18.7 CFM
0005PSL	STEERING GEAR {Sheppard M110} Power
0008GXX	ALTERNATOR {Leece-Neville BLP4006HN} Brushless, 12 Volt, 325 Amp Capacity, Pad Mount, with Remote Sense
0012EZC	ENGINE, DIESEL {Cummins L9 380} EPA 2024, 380HP @ 2100 RPM, 1150 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed, 380 Peak HP (Max), (RATED FOR EMERGENCY VEHICLES ONLY)
0012THT	FAN DRIVE {Horton Drivemaster} Two-Speed Type, Direct Drive, with Residual Torque Device for Disengaged Fan Speed
0013BCT	TRANSMISSION, AUTOMATIC {Allison 3000 EVS} 6th Generation Controls, Close Ratio, 5-Speed with Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, Max, GVW N/A
0013TKA	TRANSFER CASE {Meritor MTC-4210} 2-Speed, 10,000 lb-ft Torque Rating, with PTO Provision, Electric Over Air Control, with Lube Pump
0014ASB	AXLE, REAR, SINGLE {Meritor RS-30-185} Single Reduction, 30,000-lb Capacity, T Wheel Ends
0016030	CAB Conventional, Day Cab
0016BAM	AIR CONDITIONER with Integral Heater and Defroster
07652543264	TIRE, FRONT 315/80R22.5 Load Range L XDN2 (MICHELIN), 486 rev/mile, 75 MPH, Drive 315/80R22.5 Load Range L XDN2 (MICHELIN), 486 rev/mile, 75 MPH, Drive
07652543264	TIRE, REAR 315/80R22.5 Load Range L XDN2 (MICHELIN), 486 rev/mile, 75 MPH, Drive 315/80R22.5 Load Range L XDN2 (MICHELIN), 486 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.**

NAVISTAR, INC. SHALL NOT BE LIABLE FOR ANY LOSS OF PROFITS, LOSS OF USE, INTERRUPTION OF BUSINESS OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND THAT ARE INCURRED BY DEALER OR BY DEALER'S CUSTOMERS AS A RESULT OF RELIANCE ON TCAPE, WHETHER THE CLAIM IS IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE.



Series: HV  
 Model: HV507  
 Description: HV507 SFA  
 Model Year: 2025

**Calculation Factors**

Wheelbase: 191  
 Front Axle: 0002ERX  
 Description: AXLE, FRONT DRIVING, {Meritor MX-16-120} Single Reduction, 16,000-lb Capacity, with Hub Piloted Wheel Mounting  
 Front Wheel: 0027DUS  
 Description: WHEELS, FRONT, {Accuride 41730} DISC; 22.5x9.00 Rims, Extra Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs  
 Front Tire: 07652543264  
 Description: TIRES, 315/80R22.5 Load Range L XDN2 (MICHELIN), 486 rev/mile, 75 MPH, Drive  
 Steering Gear: 0005PSL  
 Description: STEERING GEAR, {Sheppard M110} Power

**Turning Radius Statistics**

General Information

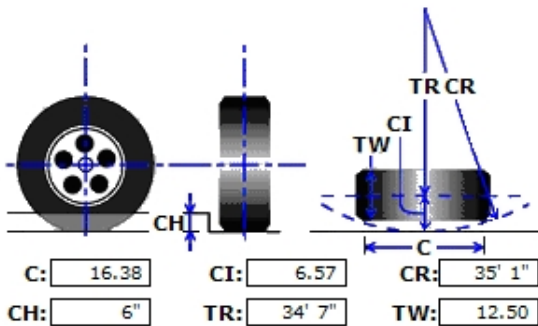
Inside Turn Angle: 33 Degrees  
 Radial Overhang: 21

Axle Information

KingPin Inclination: 7 Degrees  
 KingPin Center: 68.9

**Turning Radius - Curb View**

C - Curb Contact Length: 16.38  
 CI - Curb Clearance Increment: 6.57  
 CR - Curb Clearance Radius: 35'1"  
 CH - Curb Height: 6"  
 TR - Turning Radius: 34'7"  
 TW - Tire Width: 12.50



\* 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.

**GVWR Component Rating(s)**

Ratings	Primary			Adjusted By			GAWR* (lbf)	GVWR** (lbf)
	ATA Class	Feature	Rating (lbf)	ATA Class	Feature	Rating (lbf)		
Front Component Ratings	BRAKES, FRONT	0004XDT	23000					
	SUSPENSION, FRONT, SPRING	0003ADE	16000					
	WHEELS, FRONT	0027DUS	20000	TIRE, FRONT	0765254	18180		
	AXLE, FRONT DRIVING	0002ERX	16000					
Front GAWR							16000	
Rear Component Ratings	BRAKES, REAR	0004XCZ	38000					
	BRAKE SYSTEM, AIR	0004091	23000	BRAKES, REAR	0004XCZ	38000		
	SUSPENSION, REAR, SINGLE	0014VAJ	31000					
	WHEELS, REAR	0028DUS	36360	TIRE, REAR	0765254	33080		
	AXLE, REAR, SINGLE	0014ASB	30000					
Rear GAWR							30000	
Overall Vehicle Limitations	TRANSMISSION, AUTOMATIC	0013BCT	80000					
GVWR Based on Axle Ratings***								46000
Calculated GVWR								46000

**GCWR Component Rating(s)**

Ratings	Primary			Adjusted By			GCWR**** (lbf)
	ATA Class	Feature	Rating (lbf)	ATA Class	Feature	Rating (lbf)	
GCWR Component Rating	AXLE, REAR, SINGLE	0014ASB	125000				
	TRANSMISSION, AUTOMATIC	0013BCT	80000				
	ENGINE, DIESEL	0012EZC	80000				
Calculated GCWR							80000

\* GAWR (Gross Axle Weight Rating) is the rating capacity of an axle system which include wheels, tires, axles, brakes, springs, and suspensions.  
 \*\* GVWR (Gross Vehicle Weight Rating) is the maximum amount that a loaded vehicle can weight.  
 \*\*\* GVWR Based on Axle Ratings = Front GAWR + Rear GAWR. Overall vehicle weight limitations are not taken into account.  
 \*\*\*\* GCWR (Gross Combined Weight Rating) is the maximum weight of a tractor and trailer.

(0004AZS)

ATTACHMENTS: 0004EXU 0004ETG 0007SDP 0001ANB 0005PSL 0004091 0002ERX

<u>Parameter</u>	<u>Value</u>	<u>UOM</u>
Stability Tuning - CG	0, BENDIX ESP STANDARD TUNING	N/A
Max Accelerator Vehicle Speed	67	MPH
Road Speed Governor Upper Droop	3	MPH
Road Speed Governor Lower Droop	0.0	MPH
Driver Initiated Override (DIO)	N, DISABLE FEATURE OR FUNCTION	N/A
DIO Maximum Road Speed Delta	3	MPH
DIO Maximum Distance	100	MILES
Max Engine Speed No Veh Speed Sensr	2184	RPM
LBSC Enable	N, DISABLE FEATURE OR FUNCTION	N/A
LBSC - Engine Speed Breakpoint	1800	RPM
Gear Down Protection Enable	N, DISABLE FEATURE OR FUNCTION	N/A
GDP - Heavy Load Vehicle Speed	62	MPH
GDP - Light Load Vehicle Speed	57	MPH
Driver Reward Enable	N, DISABLE FEATURE OR FUNCTION	N/A
Driver Reward Mode	0, ROAD SPEED GOVERNOR	N/A
Fuel Economy - Expected Level	7.00	MPG
Fuel Economy - Good Level	7.25	MPG
Fuel Economy - Best Level	7.50	MPG
% Idle Time - Expected Level	30	%
% Idle Time - Good Level	20	%
% Idle Time - Best Level	10	%
Speed Reward - Expected Level	0	MPH
Speed Reward - Good Level	0	MPH
Speed Reward - Best Level	0	MPH
Speed Reward - Penalty Level	0	MPH
Idle Speed Adjustment Enable	Y, ENABLE FEATURE OR FUNCTION	N/A
Low Idle Speed	750	RPM
Idle Shutdown Enable	N, DISABLE FEATURE OR FUNCTION	N/A
ISD Time Before Shutdown	15.0	MIN
ISD Percent Engine Loading	100	%
ISD In PTO	N, DISABLE FEATURE OR FUNCTION	N/A
ISD Manual Override	N, DISABLE FEATURE OR FUNCTION	N/A
ISD With Parking Brake Set	N, DISABLE FEATURE OR FUNCTION	N/A
ISD Ambient Temperature Override	N, DISABLE FEATURE OR FUNCTION	N/A
ISD Cold Ambient Air Temperature	30	F
ISD Intermediate Ambient Air Temp	40	F
ISD Hot Ambient Air Temperature	81	F
ISD Manual Override Inhibit Zone En	N, DISABLE FEATURE OR FUNCTION	N/A
ISD Hot Ambient Automatic Override	Y	N/A
ISD Engine Coolant Temp Threshold	53	F
Cruise Control Enable	Y, ENABLE FEATURE OR FUNCTION	N/A
CC Maximum Vehicle Speed	67	MPH
CC Save Set Speed	N, DISABLE FEATURE OR FUNCTION	N/A
CC Upper Droop	3.0	MPH
CC Lower Droop	0.0	MPH
CC Auto Resume	N, DISABLE FEATURE OR FUNCTION	N/A
CC Engine Brake Swtch Bypass Enable	N, DISABLE FEATURE OR FUNCTION	N/A
Engine Fan Min On Time For AC	30	SEC
Remote Accelerator Enable	N, DISABLE FEATURE OR FUNCTION	N/A
Remote Accelerator Mode	1, REMOTE ACCELERATOR PEDAL OR LEVER WITH TRANS VERIFICATION	N/A
PTO Enable	Y, ENABLE FEATURE OR FUNCTION	N/A
PTO In Cab Mode	Y, ENABLE FEATURE OR FUNCTION	N/A
Remote PTO Enable	N, DISABLE FEATURE OR FUNCTION	N/A
Remote Station PTO Enable	N, DISABLE FEATURE OR FUNCTION	N/A

PTO Max Engine Speed	2200	RPM
PTO Min Engine Speed	750	RPM
PTO Maximum Engine Load	800	LB-FT
PTO Max Vehicle Speed	2	MPH
PTO Accelerator Override	N, DISABLE FEATURE OR FUNCTION	N/A
PTO Accel Override Max Engine Speed	2400	RPM
PTO Clutch Override	N, DISABLE FEATURE OR FUNCTION	N/A
PTO Service Brake Override	Y, ENABLE FEATURE OR FUNCTION	N/A
PTO Parking Brake Interlock Mode	1, PTO PRK BRK INT TYPE SET TO CAB ONLY	N/A
PTO Transmission Neutral Interlock	Y, ENABLE FEATURE OR FUNCTION	N/A
PTO Eng Spd Limit w/VSS Limit	N, DISABLE FEATURE OR FUNCTION	N/A
PTO Ignore Vehicle Speed Sensor	N, DISABLE FEATURE OR FUNCTION	N/A
PTO Resume Switch Speed	925	RPM
PTO Set Switch Speed	850	RPM
PTO Additional Switch Speed	950	RPM
PTO Ramp Rate	250	RPM/SEC
Remote PTO Number of Speed Settings	1	N/A
Remote PTO Speed Setting 1	1000	RPM
Remote PTO Speed Setting 2	1200	RPM
Remote PTO Speed Setting 3	1400	RPM
Remote PTO Speed Setting 4	1400	RPM
Remote PTO Speed Setting 5	1500	RPM
Remote Station PTO Resume Sw Spd	1000	RPM
Remote Station PTO Set Switch Speed	1500	RPM
Remote Station PTO Addition Sw Spd	1500	RPM
Transmission Driven PTO	N, DISABLE FEATURE OR FUNCTION	N/A
Transmission Driven PTO Type	0, ENGINE DRIVEN STEADY LOAD	N/A
Powertrain Protection Enable	N, DISABLE FEATURE OR FUNCTION	N/A
Max Torque Allow By Axle/Driveshaft	23602	LB-FT
Max Torque in Top Gear Range	2995	LB-FT
Max Torque in Int. Gear Range	2995	LB-FT
Max Torque in Low Gear Range	2995	LB-FT
Max Torque w/o Vehicle Speed	1475	LB-FT
Lowest Gear of Top Gear Range	2.00	N/A
Lowest Gear of Int. Gear Range	3.00	N/A
Lowest Gear of Low Gear Range	6.00	N/A
Engine Protection Shutdown	Y, ENABLE FEATURE OR FUNCTION	N/A
Engine Protection Restart Inhibit	Y, ENABLE FEATURE OR FUNCTION	N/A
Engine Prot Coolant Level Shutdown	N, DISABLE FEATURE OR FUNCTION	N/A
Sudden Veh Speed Decel Threshold	6.96	MPH
Trip Information Vehicle Ovrsped1	74	MPH
Trip Information Vehicle Ovrsped2	76	MPH
Veh Speed Sensor Anti Tamper Level	1, HIGH LEVEL	N/A
Maintenance Monitor Enable	N, DISABLE FEATURE OR FUNCTION	N/A
Maintenance Monitor Operating Mode	0, MAINTENANCE MONITOR AUTOMATIC MODE OF OPERATION	N/A
Maintenance Monitor Alert Percent	90	%
Maintenance Monitor Distance	15000	MILES
Maintenance Monitor Fuel	2000	GALLONS
Maintenance Monitor Time	500	HOURS
Maintenance Monitor Interval Factor	1.00	N/A
Master Password	000000	N/A
Adjustment Password	000000	N/A
Reset Password	000000	N/A

These Electronic Parameters have been successfully finalized