



Southwest Detroit Environmental Vision  
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# **REQUEST FOR QUOTES** **INVITATION TO BID:**

**Purchase Eight (8) Class 8 Diesel Tractors**

**ISSUED: November 08, 2019**

**BIDS DUE: November 25, 2019, 5pm Eastern Time**

**Proposals may be submitted by mail or email (email is preferred)**

**Mail to:** Southwest Detroit Environmental Vision  
Attn: Toi Bonds, Project Manager - Clean Diesel Initiative  
Healthy Air Program  
P.O. Box 9400  
Detroit, MI 48209

**Email to:** [toi@sdevweb.org](mailto:toi@sdevweb.org)

**Subject line:** RE: RFQ – V.I.P. Logistics

**\*\*\*Please read this document carefully and follow instructions so that you submit all necessary information and documentation needed to evaluate your bid(s).\*\*\***

## **REQUEST FOR QUOTES**

Southwest Detroit Environmental Vision (SDEV) is requesting for quotes (RFQ) from suppliers for the purchase of eight (8) Class 8 diesel tractors all with an engine configuration that meets the California Air Resources Board (CARB) Optional Low-NOx emissions standard. Bidders are welcome who wishing to quote technologies other than diesel that meet the CARB Optional Low-NOx emissions standard. The Class 8 tractor will be purchased to replace pre-2009 model year tractors of similar specifications, owned and operated by SDEV's project partner, V.I.P. Logistics.

## **BACKGROUND**

Since 2009, SDEV has secured over \$5 million in clean diesel grant funding from the U.S. EPA, the Michigan Department of Environment, Great Lakes, and Energy (previously known as the Michigan Department of Environmental Quality) (MI EGLE), and the Michigan Department of Transportation (MDOT). The goal of these grant programs is to reduce air pollution from the aging diesel fleet in the U.S.. Benefits of such replacements include improved air quality, avoidance of increased greenhouse gas loading in the atmosphere, and a reduction in toxins that can aggravate asthma and other health conditions - all of which are significant concerns for residents, businesses, and institutions in southwest Detroit and beyond.

Past grant funding, along with over \$8 million in private company investments, has led to the reduction of over 5,500 tons of diesel pollution annually. Through SDEV's Clean Diesel Initiative, we have assisted over 50 private and public entities in purchasing new trucks and buses, new non-road equipment, and rebuilt marine engines. In addition, we have assisted partners in retrofitting nearly 200 trucks with pollution controls, including engine idle reduction technology.

The grant that supports this request for bids was secured by SDEV through the U.S. Environmental Protection Agency (EPA) National Clean Diesel Funding Assistance Program to facilitate early replacement of pre-2009 model year diesel vehicles. This current grant provides funding toward the cost of eight (8) Class 8 diesel tractors with an engine configuration that meets CARB Optional Low-NOx.

## **TIMELINE**

The following is the RFQ and Award timeline:

November 8, 2019	RFQ Release Date
November 20, 2019	Questions Due
November 25, 2019	Bid Proposal Due
December 1, 2019	Award Notification (anticipated)

## RFQ SPECIFICATIONS

The following specifications should be addressed in your proposal:

1. **Equipment cost:** Proposal should include basic cost for a Class 8 diesel tractor based on the minimum specifications in Attachment A, plus separate line items for any other parts needed to make the class 8 diesel tractor operational.
  - a. Pricing for Class 8 diesel tractor with and without auxiliary power unit (APU) must be provided
  - b. Note: Bidders must demonstrate the engines included in the bid meet the CARB Optional Low-NOx certification. If the engines included do not meet the CARB Optional Low-NOx emissions standard, this fact should be clearly stated; such bids may be considered. Bidders offering technologies other than diesel that meet the CARB Optional Low-NOx certification are welcome. Bidders offering technologies other than diesel that do not meet the CARB Optional Low-NOx certification will not be considered.
2. **Additional Costs:** Proposal should also include the cost of any additional equipment for the class 8 diesel tractor, shipping costs, taxes, etc. - including any recommendations that may be of interest to increase emissions reductions (e.g. alternative fuel configurations, trailer fairings/body modifications that increase fuel economy, etc.)
3. **Warranty:** Warranty information and any additional costs for warranties should be specified including terms and any items covered or not covered by the warranty. Vendor must certify whether vehicle and engine warranties will be affected by the installation of aftermarket equipment or use of alternative fuels (e.g. biodiesel blends).
4. **Location:** Bidder should specify dealer location, service location(s)/options, manufacturing location, and corporate location.
5. **Payment terms:** Bidder must specify payment terms and any payment or financing options for recipients considering pre-orders and or deposits.
6. **Delivery timeline:** Bidder must state estimated delivery date from the time the order is placed.
7. **Additional Information:** Bidder may provide additional information.
8. **Multiple Proposals:** Bidder may submit multiple proposals.
9. **Jobs Effect:** Bidder is invited to estimate the number of jobs and people that will be impacted by this project.
10. **Certificate of Conformity and CARB Optional Low-NOx certificate:** Bidder must demonstrate to SDEV proof that the class 8 diesel tractor being procured will produce cleaner burning emissions than the old class 8 diesel tractor being replaced by including the U.S. EPA Certificate of Conformity and CARB Optional Low-NOx certificate for the new engine with bid proposal package. If a CARB Optional Low-NOx certification is not in place for the engine(s) being quoted, this should be clearly stated.
11. **Bid Format:** It is preferable for bids to be submitted as one PDF document delivered by email to [toi@sdevweb.org](mailto:toi@sdevweb.org), though other formats and delivery options are allowed.

## **REQUIREMENTS**

The bidder, in its proposal, must demonstrate compliance with the below requirements of the U.S. EPA grant or will be subject to immediate disqualification.

1. The selected manufacturer may not be on a state or Federal Suspension or Debarment list, nor be out of compliance with any federal or state environmental requirements.
2. Per Title 40 US Code: labor performed under this contract must provide prevailing wages, and all contracted workplaces must adhere to the Drug Free Workplace rules.
3. Manufacturers/suppliers must ensure that engine/equipment warranties remain in effect.
4. Bidders are required to state the environmental air quality emissions benefits of the new tractor engine(s) in comparison to the pre-2009 engine(s) to be replaced (see item 11, above).

## **QUESTIONS (EQUIPMENT INSPECTION/SITE VISIT)**

Bidders should complete all due diligence and engineering investigation prior to the closing of the solicitation period. Please see Attachment A for minimum tractor specifications.

Bidders should contact V.I.P. Logistics directly with any questions regarding tractor specifications:

Boris Iovanovici  
(586) 604-0940  
boris@viplogisticsllc.com

Please direct all other questions to:  
Toi Bonds, Project Manager - Clean Diesel Initiative  
Healthy Air Program  
Southwest Detroit Environmental Vision  
(313) 842-1961  
toi@sdevweb.org

## **GRANT FUNDING AND PROPOSAL EVALUATION**

The grant awarded to SDEV will provide partial funds as reimbursement toward the cost of eight (8) Class 8 Diesel tractors with specifications as outlined in Attachment A, appended to this RFQ. Replacing the old Class 8 diesel tractors with new models will significantly reduce Particulate Matter, Nitrogen Oxides, Carbon Monoxide, and Hydrocarbons emitted from the older diesel engines. SDEV's ultimate goal is to reduce emissions from mobile equipment operating in and around southwest Detroit.

The following criteria will be considered when evaluating the proposals. Decisions will be based on a combination of these factors and best fit for the fleet:

- Cost Effectiveness
- Delivery Timeline
- RFQ Specifications
- Grant requirements

#### **MINORITY BUSINESS AND WOMEN BUSINESS ENTERPRISE GOAL PROGRAM**

The following compliance procedures will be followed to ensure that contracts are awarded to MBE/WBE vendors that meet the proposal criteria:

- SDEV will take affirmative action to seek out both Minority and Women Business Enterprises to bid on the equipment specified
- SDEV will submit names of the MBE and WBE vendors contacted, whether or not they responded with a bid, and the names, prices and description of the equipment provided by the proposed vendor
- SDEV shall make good faith efforts to use MBE/WBE to replace another MBE/WBE unable to perform successfully

#### **DEFINITIONS**

Minority Business Enterprise (MBE): A minority business enterprise is defined as a company wherein minorities constitute active participation and ownership of over 50%. Minorities are defined as United States citizens who are members of the following groups of protected classes: Black, Hispanic, Oriental, Eskimo and American Indians who are certified by the Indian Affairs Commission. These groups will have the power to make policy decisions in a business and are involved in the day-to-day management of the business.

Women Business Enterprise (WBE): A women business enterprise is defined as a company wherein females constitute active participation in and ownership of 50%. The female owner will have the power to make policy decisions in a business and are involved in the day-to-day management of the business.

#### **BIDS ARE DUE BY 5PM ET ON Monday, November 25, 2019 BY MAIL OR EMAIL**

**Mail:** Southwest Detroit Environmental Vision  
Attn: Ms. Toi Bonds, Project Manager - Clean Diesel Initiative  
Healthy Air Program  
P.O. Box 9400  
Detroit, MI 48209

**Email to:** [toi@sdevweb.org](mailto:toi@sdevweb.org); [boris@viplogisticsllc.com](mailto:boris@viplogisticsllc.com)

**Subject Line:** RE: RFQ – V.I.P. Logistics

**Attachment A**

Code	Source	Family	Description	Front Wt	Rear Wt	List Price
<b>BASE MODEL</b>						
				8369.0	5188.0	
<b>MODEL PACKAGE</b>						
		MANUFACTURING LOCATION	ASSEMBLED IN THE USA	0	0	0.0
		FUEL ECONOMY PACKAGE		0	0	0.0
		SAFETY EQUIPMENT PACKAGE	BASIC SAFETY PACKAGE	0	0	0.0
<b>VEHICLE ADAPTATION</b>						
		MARKET ADAPTATION	USA / USA TERRITORY MARKET ADAPTATION	0	0	0.0
		OPERATOR'S MANUAL LANGUAGE	ENGLISH	0	0	0.0
		VEHICLE APPLICATION	TRACTOR / DRY VAN TRAILER OR CONTAINER	0	0	0.0
		GROSS COMBINATION WEIGHT	80,000 LB GROSS COMBINATION WEIGHT	0	0	0.0
		VEHICLE GHG CERTIFICATION	GREEN HOUSE GAS COMPLETE VEHICLE CERTIFICATION	0	0	0.0
		GHG VEHICLE APPLICATION	GREEN HOUSE GAS HIGHWAY APPLICATION	0	0	0.0
		VEHICLE WARRANTY QUALIFICATION	STANDARD NORMAL DUTY WARRANTY QUALIFIED	0	0	0.0
		VEHICLE VOCATION	LINEHAUL / LONG HAUL / REGIONAL HAUL SERVICE	0	0	0.0
		OPERATING CONDITIONS TOPOGRAPHY	ON HIGHWAY, STARTING GRADES<16% MOSTLY FLAT, MOST GRADES <3% (EX. OHIO)	0	0	0.0
		AMBIENT TEMPERATURE UPPER LIMIT	SUMMER AMBIENT TEMPERATURES DO NOT REGULARLY EXCEED 104 DEG F (40 DEG C)	0	0	0.0
		LOADING SURFACE FACTOR	CONCRETE LOADING AND / OR UNLOADING SURFACE	0	0	0.0
		OPERATING CLASS	OPERATING CLASS ONE (ON HIGHWAY)	0	0	0.0
<b>MODEL PACKAGE</b>						
		VEHICLE WIDTH	102" (2590 MM) VEHICLE WIDTH	0	0	0.0

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## VEHICLE ADAPTATION

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CUSTOMER FLEET SIZE	DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND	0	0	0.0
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## PASSIVE AND ACTIVE SAFETY

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CAB TYPE	HIGH-STRENGTH STEEL (HSS) 70" TALL ROOF INTEGRAL SLEEPER	0	0	0.0
SRS AIR BAG	SRS AIR BAG-DRIVER SIDE ONLY	0	0	0.0
SAFETY BELT REMINDER	SAFETY BELT INDICATOR AND AUDIBLE REMINDER	0	0	0.0
AUXILIARY DOWN VIEW MIRROR	DOWN VIEW MIRROR OVER PASSENGER DOOR	0	0	0.0
STABILITY CONTROL REGULATIONS	ELECTRONIC STABILITY CONTROL, REGULATION FMVSS	0	0	0.0
ELECTRONIC VEHICLE STABILITY CONTROL	ENHANCED STABILITY TECHNOLOGY	0	0	0.0
ABS TRACTION CONTROL	TRACTION CONTROL WITH LIMITED DISABLE	0	0	0.0
COLLISION AVOIDANCE SYSTEM	NO COLLISION AVOIDANCE SYSTEM PROVIDED	0	0	0.0
VADA DRIVER VOLUME CONTROL	NO VADA VOLUME LEVEL PROVIDED	0	0	0.0
VADA VOLUME CONTROL LEVEL	NO VADA VOLUME LEVEL PROVIDED	0	0	0.0
VADA TIME GAP AND WARNING SETTINGS	NO VADA TIME GAP CONFIGURATION PROVIDED	0	0	0.0

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## ENGINE

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ENGINE PACKAGE	500HP 2100RPM 1850/1550 LBFT - Current EMISSION LEVEL	0	0	
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## ENGINE EQUIPMENT

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AIR CLEANER	SINGLE STAGE AIR CLEANER	0	0	0.0
COOLANT MANUFACTURER		0	0	0.0
COOLANT	EXTENDED LIFE ANTIFREEZE -34 F (-37 C)	0	0	0.0
FAN CLUTCH PACKAGE	ELECTRONIC VISCOUS CSI FAN CLUTCH	0	0	0.0
STARTER MOTOR	DELCO REMY 12V 39MTHD STARTER	0	0	0.0
ALTERNATOR	165 AMP HIGH EFFICIENCY DELCO REMY 36SI PAD MOUNT ALTERNATOR (12V)	0	0	0.0
BATTERY PACKAGE	4 760 CCA MAINTENANCE FREE 12V BATTERIES, 3040 CCA			
BATTERY BOX MOUNTING	BATTERY BOX, LEFT HAND SIDE, BEHIND FRONT FENDER	0	0	0.0
BATTERY BOX CONFIGURATION	BATTERY BOX - 4 CAPACITY	0	0	0.0
BATTERY PROTECTION	BATTERY LIFEGUARD SYSTEM		0	0.0
BATTERY DISCONNECT SWITCH	MANUAL BATTERY DISCONNECT MAIN SWITCH	0	0	0.0
BATTERY ISOLATION	RUBBER ISOLATION PAD UNDER BATTERIES		0	0.0
DIESEL EXHAUST FLUID TANK	18.5 GALLON LEFT HAND 26", FRAME MOUNTED (FILLED WITH 10 GALLONS OF DEF, WEIGHING 91 LBS, INCLUDED IN WEIGHT)			0.0

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EXHAUST SYSTEM	INTEGRATED DPF AND SCR MOUNTED RIGHT HAND SIDE UNDER CAB WITH SINGLE HORIZONTAL TAILPIPE			0.0
EXHAUST OUTLET PACKAGE	HORIZONTAL ALUMINIZED STAINLESS STEEL TAIL PIPE	0	0	0.0
EXHAUST FEATURES	NO EXHAUST STACK FEATURES PROVIDED	0	0	0.0
LOWER EXHAUST PIPING	ALUMINIZED STAINLESS STEEL EXHAUST PIPE	0	0	0.0
EXHAUST PIPING FLEX SECTION	STAINLESS STEEL EXHAUST FLEX SECTION	0	0	0.0
EXHAUST SHIELD	ALUMINUM EXHAUST SHIELD	0	0	0.0
PRIMARY FUEL FILTER	DAVCO FUEL PRO 382 FLUID HEAT		0	
COMPRESSOR	WABCO 31.8 CFM COMPRESSOR	0	0	0.0
CLUTCHABLE AIR COMPRESSOR	NO CLUTCHABLE AIR COMPRESSOR PROVIDED	0	0	0.0
ENGINE BLOCK HEATER	PHILLIPS 120V 1500W LEFT HAND RECEPTACLE BLOCK HEATER		0	
ENGINE BRAKE	ENGINE BRAKE (I-VEB)	0	0	0.0
ENGINE STARTING AID	ENGINE MOUNTED ELECTRIC PRE-HEATER		0	
ENGINE OIL PAN	COMPOSITE OIL PAN (STANDARD OIL CHANGE INTERVALS)	0	0	0.0

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## TRANSMISSION

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TRANSMISSION PACKAGE	12 SPEED I-SHIFT ATO2612F OVER DRIVE		0	0.0
TRANSMISSION ELECTRONICS	COMPREHENSIVE TRANSMISSION ELECTRONICS (LINE /REGIONAL HAUL PERFORMANCE)	0	0	0.0
PREDICTIVE CRUISE CONTROL	SUITABLE FOR TRANSMISSION		0	
		0	0	
TRANSMISSION CONTROL	BASIC (STALK AND DASH)	0	0	
HILL START ASSIST	HILL START ASSIST (REPLACED BY 3IAA2X ON 09/09/2019)	0	0	
TRANSMISSION PERFORMANCE MODE	TRANSMISSION PERFORMANCE MODE, ENABLED WITH AUTO RETURN TO ECONOMY MODE	0	0	0.0
TRANSMISSION KICK-DOWN MODE	TRANSMISSION KICK-DOWN MODE, ENABLED IN ECONOMY AND PERFORMANCE MODES	0	0	
TRANSMISSION OUTPUT TORQUE	STANDARD OUTPUT TORQUE	0	0	0.0
GEAR SHIFT CONTROL	GEAR SHIFT LEVER, DASH MOUNTED, PREMIUM, VOLVO I-SHIFT	0	0	
TRANSMISSION COOLER	WATER TO OIL TRANS COOLER MOUNTED ON TRANSMISSION	0	0	0.0
AUTOMATED MANUAL TRANSMISSION PTO FUNCTIONS	AMT PTO FUNCTIONS BASIC	0	0	0.0
DRIVELINE MANUFACTURER	MERITOR RPL SERIES DRIVELINE			0.0
DRIVELINE	UPGRADE DRIVELINE ONE SIZE			0.0
CLUTCH	17" SINGLE PLATE DAMPENED ORGANIC	0	0	0.0

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## PROGRAMMABLE FEATURES

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IDLE EMISSION CERTIFICATION	IDLE EMISSION CERTIFICATION, CARB 08	0	0	0.0
IDLE EMISSION LABEL LOCATION	CAB MOUNTED CARB '08 DECAL LOCATION	0	0	0.0
EMISSION ON BOARD DIAG CONTROL	EMISSION OBD, DISPLAY ONLY, USA 2018	0	0	0.0
ENGINE IDLE AUTOMATIC SHUTDOWN (AL)	ENGINE IDLE SHUTDOWN, ENABLE	0	0	0.0
ENGINE IDLE SHUTDOWN TIME (AM)	IDLE SHUTDOWN TIME 5 MINUTES	0	0	0.0
ENGINE IDLE CONTROL (CMQ)	BASIC ENGINE IDLE CONTROL	0	0	0.0
AMBIENT TEMP MAX THRESHOLD (CMO)	MAXIMUM AMBIENT AIR TEMPERATURE OVER-RIDE, 80 DEG F (27 DEG C)	0	0	0.0
AMBIENT TEMP MIN THRESHOLD (CMN)	MINIMUM AMBIENT AIR TEMPERATURE OVER-RIDE, 45 DEG F (7 DEG C)	0	0	0.0
CRUISE CONTROL (AG)	WITH ECO CRUISE CONTROL	0	0	0.0
CRUISE CONTROL, MAXIMUM SPEED (AI)	MAXIMUM CRUISE, 65 MPH (105 KM/H)	0	0	0.0
PEDAL ROAD SPEED LIMIT SETTING (P1I16)	PEDAL ROAD SPEED LIMIT, 68 MPH (110 KM/H)	0	0	0.0
ROAD SPEED LIMIT SETTING (P1AOC)	ROAD SPEED LIMIT, 68 MPH (110 KM/H)	0	0	0.0
GEAR DOWN VEHICLE SPEED LIMITER (P1AL0)	GEAR DOWN VEHICLE SPEED LIMITER ENABLED	0	0	0.0
GEAR DOWN VEHICLE SPEED LIMIT (P1AOD)	GEAR DOWN VEHICLE SPEED, 58 MPH (93 KM/H)	0	0	0.0
CRUISE CONTROL MIN SPEED (BK)	MIN CRUISE, 30 MPH (48 KM/H)	0	0	0.0
ROAD SPEED LIMIT CONTROL TYPE (P1I01)	WITH ECO RSL CONTROL	0	0	0.0
OPTIMIZED FUEL ECON INDICATOR (P1LXM)	OPTIMIZED FUEL ECONOMY INDICATOR, SWEET SPOT	0	0	0.0
ENGINE LOAD IN PTO (CMM)	30% MINIMUM ENGINE LOAD LIMIT IN PTO BEFORE ALLOW IDLE SHUTDOWN	0	0	0.0
MAXIMUM ENGINE SPEED AT 0 MPH (P1ANA)	1400 MAXIMUM ENGINE RPM AT 0 MPH	0	0	0.0
ENGINE PROTECTION SYSTEM (P1FQT)	ENGINE PROTECTION (SHUTDOWN)	0	0	0.0
COOLANT WARM HOLD TEMP (KBS)	COOLANT WARM HOLD TEMP ENABLED	0	0	0.0
DPF REGENERATION CONTROLS	DPF REGEN CONTROL, AUTO REGEN IN MOTION, MANUAL PARKED REGEN, MANUAL INHIBIT	0	0	0.0
PTO MAXIMUM ENGINE SET SPEED (AND)	PTO ENGINE MAXIMUM 700 RPM	0	0	0.0
PTO RESUME ENGINE SET SPEED (ANE)	PTO ENGINE RESUME 700 RPM	0	0	0.0
ADEPT ENGINE SOFTWARE PACKAGES	WITHOUT ADEPT SOFTWARE	0	0	0.0

## FRONT AXLE

FRONT AXLE PACKAGE	HENDRICKSON STEERTEK 13,200 LB CAPACITY FRONT SPRINGS	0		
FRONT STABILIZER	NO FRONT STABILIZER PROVIDED	0	0	0.0
BRAKE REGULATION	BRAKE REGULATION, STOPPING DISTANCE 250 FT (76M)	0	0	0.0
FRONT BRAKE PACKAGE	FRONT BRAKE BENDIX SPICER, CAST S-CAM, STANDARD LUBE	0	0	0.0
FRONT BRAKE DIMENSION	16.5X5 FRONT BRAKE SIZE	0	0	0.0

BRAKE TYPE, FRONT AXLE	CAST IRON FRONT BRAKE DRUM OUTBOARD MOUNTED	0	0	0.0
FRONT BRAKE LINING MATERIAL	BRAKE LINING MATERIAL FRONT, BENDIX SPICER BX920	0	0	0.0
BRAKE SHOE COATING FRONT	BRAKE SHOE COATING FRONT, BASIC	0	0	0.0
HUBS, FRONT AXLE	ALUMINIUM PRESET PLUS FRONT AXLE HUB WITH INTEGRATED SPINDLE NUT	0	0	0.0
FRONT OIL SEAL CAP	STEMCO VISIBLE CAP WITH DRAIN	0	0	0.0
FRONT AXLE LUBRICANT	COGNIS EMGARD (ROADRANGER) FE 75W-90 SYNTHETIC FRONT AXLE LUBRICANT	0	0	10.0
POWER STEERING GEAR	TRW THP60 INTEGRAL POWER STEERING GEAR	0	0	0.0
STEERING SHAFT TYPE	GREASEABLE STEERING SHAFT		0	
FRONT SUSPENSION PACKAGE	HENDRICKSON AIRTEK AIR SUSPENSION MATCHED TO FRONT AXLE CAPACITY		0	0.0
SPRING MAINTENANCE TYPE	MAINTENANCE FREE, RUBBER SPRING EYE BUSHINGS	0	0	0.0

## REAR AXLE

REAR AXLE PACKAGE	MERITOR MT-40-14X3C AMBOID 40,000 LB CAPACITY	0	0	0.0
REAR AXLE RATIO	3.08 REAR AXLE RATIO	0	0	0.0
DIFFERENTIAL LOCK	INTERAXLE DIFFERENTIAL LOCK	0	0	0.0
REAR SUSPENSION PACKAGE	38,000 LB VOLVO AIR SUSPENSION 52 " SPACING	0	0	0.0
REAR SHOCK ABSORBER	REAR SHOCK ABSORBERS	0	0	0.0
REAR BRAKE PACKAGE	REAR BRAKE BENDIX SPICER, NEXT GENERATION LIGHTWEIGHT, STANDARD LUBE	0	0	0.0
DRIVE AXLE BRAKE DIMENSION	16.5X7 REAR BRAKE SIZE	0	0	0.0
BRAKE TYPE, DRIVE AXLE	CAST IRON DRIVE AXLE BRAKE DRUM OUTBOARD MOUNTED	0	0	0.0
DRIVE AXLE BRAKE LINING MATERIAL	BRAKE LINING MATERIAL DRIVE, BENDIX SPICER BX415		0	0.0
BRAKE SHOE COATING DRIVE	BRAKE SHOE COATING DRIVE, BASIC	0	0	0.0
HUBS, DRIVE AXLE	ALUMINIUM PRESET PLUS DRIVE AXLE HUB WITH INTEGRATED SPINDLE NUT	0	0	0.0
REAR AXLE LUBRICANT	COGNIS EMGARD (ROADRANGER) FE 75W-90 SYNTHETIC REAR AXLE LUBRICANT (APPROVED FOR MERITOR EXTENDED COMPONENT WARRANTY)	0	0	
PARKING BRAKE CHAMBER PACKAGE	TWO CAM TYPE HALDEX	0	0	0.0
REAR BRAKE CHAMBER SIZE	REAR BRAKE CHAMBER 30 / 30 SQ INCHES (SERVICE / EMERGENCY)		0	0.0
CHAMBER STROKE LENGTH, DRIVE AXLE	EXTENDED LENGTH BRAKE CHAMBER STROKE	0		
FRONT AND REAR SLACK ADJUSTERS	MERITOR BRAKE ADJUSTER FRONT AND REAR	0	0	
FRONT BRAKE CHAMBER SIZE	FRONT BRAKE CHAMBER 24 SQUARE INCHES (SERVICE)	0	0	0.0

## CHASSIS

DRIVER SIDE FRONT CHASSIS CONFIGURATION	LEFT HAND BATTERY BOX - 4 CAPACITY, DEF TANK MOUNTED BEHIND BATTERY BOX (VNL / VNR)	0	0	0.0
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PASSENGER SIDE FRONT CHASSIS CONFIGURATION	INTEGRATED DPF & SCR (VNR / VNL / VHDB)	0	0	0.0
WHEELBASE	229" WHEELBASE			0.0
OVERHANG	55" OVERHANG	0		0.0
FUEL TANK SHAPE - DIESEL	26" DIA CYLINDRICAL FUEL TANK	0	0	0.0
FUEL TANK, LEFT HAND SIDE - DIESEL	150 GALLON LEFT HAND FUEL TANK			
FUEL TANK, RIGHT HAND SIDE - DIESEL	150 GALLON RIGHT HAND FUEL TANK			
FUEL TANK MATERIAL - DIESEL	ALUMINUM FUEL TANK MATERIAL	0	0	0.0
FUEL TANK POSITION - DIESEL	FUEL TANK POSITION 2	0	0	0.0
AERODYNAMIC DEVICE CHASSIS	EXTENDED CHASSIS FAIRING			
MID CHASSIS FAIRING ACCESS	FIXED MID CHASSIS FAIRINGS	0	0	0.0
DIESEL EXHAUST FLUID TANK COVER	PAINTED DIESEL EXHAUST FLUID TANK COVER	0	0	0.0
AERODYNAMIC DEVICE CAB SKIRT	CUSTOM CAB SKIRT	0	0	0.0
FUEL LINES	NYLON FUEL LINES	0	0	0.0
FUEL TANK STRAPS	PAINTED STEEL FUEL TANK STRAPS	0	0	0.0
FUEL TANK CAP / DEF TANK CAP	NON-LOCKING FUEL TANK CAP	0	0	0.0
AIR TANK ARRANGEMENT	AIR TANK ARRANGEMENT, BASIC	0	0	0.0
AIR TANKS	STEEL AIR TANKS	0	0	0.0
AIR DRYER	MERITOR WABCO AIR DRYER, 1200UP WITHOUT TURBO CUT OFF VALVE, WITH HEATER AND COALESCING OIL FILTER (REPLACED BY VHXE5X)	0	0	0.0
AIR TANK DRAIN VALVE	MANUAL DRAIN VALVES, LANYARD ON WET TANK	0	0	0.0
FRAME RAIL PACKAGE	11.81"X3.54"X.28" STRAIGHT STEEL RAILS	0	0	0.0
INTERMEDIATE CROSSMEMBER MATERIAL	STEEL CROSSMEMBER MATERIAL			0.0
INTERMEDIATE CROSSMEMBER CONFIGURATION	BASIC INTERMEDIATE CROSSMEMBER	0	0	0.0
FORWARD REAR SUSP CROSSMEMBER MATERIAL	STEEL CROSSMEMBER MATERIAL	0	0	0.0
BOGIE CROSSMEMBER MATERIAL	STEEL CROSSMEMBER MATERIAL	0	0	0.0
REAR FRAME TREATMENT	TAPERED REAR CROSSMEMBER, 27 DEGREE	0		0.0
FRONT BUMPER	PAINTED MOLDED AERODYNAMIC BUMPER WITH DRAG REDUCTION PLATE		0	
BUMPER REINFORCEMENT	NO BUMPER REINFORCEMENT PROVIDED	0	0	0.0
FRONT FENDER EXTENSION	NO FRONT FENDER EXTENSION PROVIDED	0	0	0.0
MUDFLAP HANGERS, REAR AXLE	STAINLESS STEEL ANGLED			
MUDFLAP HANGER LOCATION (CA)	BASIC MUDFLAP BRACKET LOCATION		0	0.0
PROTECTION PLATE, RADIATOR/OIL PAN	LOWER RADIATOR HEAVY DUTY ROCK GUARD AND RADIATOR PROTECTION SCREEN		0	
FRONT TOWING DEVICE	TWO FRONT TOWING DEVICES	0	0	0.0
MAIN CHASSIS WIRING HARNESS COVERING	HEAVY DUTY MAIN CHASSIS WIRING HARNESS COVERING	0	0	0.0
LH FUEL TANK FACE LOCATION	LH FUEL TANK FRONT FACE @ XM=5230	0	0	0.0
RH FUEL TANK FACE LOCATION	RH FUEL TANK FRONT FACE @ XM=5225	0	0	0.0

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## TRANSPORT ADAPTATION

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BACK OF CAB (BOC) ACCESS PACKAGE	LEFT HAND BACK OF CAB ACCESS WITH 20" LOW PROFILE DECK			0.0
FIFTH WHEEL PACKAGE	SAF HOLLAND FW17 AIR SLIDE LEFT HAND RELEASE			
GROUND TO 5TH WHEEL TOP HEIGHT	47.0" FIFTH WHEEL HEIGHT	0	0	0.0
SLIDING FIFTH WHEEL TRAVEL	12.0 INCHES OF FIFTH WHEEL TRAVEL	0	0	0.0
FIFTH WHEEL ANGLE MATERIAL	STEEL FIFTH WHEEL ANGLES	0	0	0.0
FIFTH WHEEL REARMOST POSITION	26" BEHIND FORWARD DRIVE AXLE CENTER (-660MM)	0	0	0.0
HOSEHANGERS	TOWEL BAR WITH ADDITIONAL SPRING HANGER		0	
TRAILER BRAKE CONNECTION POSITION	CAB MOUNTED TRAILER BRAKE CONNECTION	0	0	0.0
HOSE TENDER POSITION	NO HOSE TENDER POSITION PROVIDED	0	0	0.0
TRAILER ELECTRICAL CABLE	DETACHABLE TRAILER CABLE		0	
TRAILER BRAKE HOSES & CABLES	15' STRAIGHT TRAILER BRAKE HOSES AND CABLE		0	
TRAILER BRAKE HAND CONTROL	FULL PRESSURE TRAILER BRAKE HAND CONTROL		0	

## CAB EXTERIOR

AERODYNAMIC DEVICE ROOF	ROOF FAIRING EXTENSION WITH ADJUSTABLE TRIM TAB			
AERODYNAMIC DEVICE CAB SIDE	CAB SIDE FAIRINGS WITH EXTENDERS			
AUXILIARY SIDE WINDOW	VENTED BUNK WINDOWS WITH SCREENS, BOTH SIDES	0	0	0.0
AUXILIARY ROOF WINDOW	WITH SKYLIGHT	0		
WIPER BLADE	BASIC WIPER BLADE	0	0	0.0
FRONT GRILLE	CHROME PLATED FRONT GRILLE	0	0	0.0
AIR INTAKE GRILLE FINISH	AIR INTAKE GRILLE, BRIGHT FINISH	0	0	
AIR HORN	DUAL TRUMPET MOUNTED UNDER CAB	0	0	0.0
EXTERIOR SIDE VIEW MIRRORS	CHROME AERODYNAMIC MIRRORS	0	0	
MIRROR ARM WIND DEFLECTOR	INTEGRAL MIRROR ARM SHROUD AND A-PILLAR AIR-FLOW DEVICE		0	
EXTERIOR MIRROR FEATURES	HEATED, POWER AXIS MIRROR, BOTH SIDES		0	
AUXILIARY MIRROR, HOOD	HOOD MTD MIRROR, BOTH SIDES, AERODYNAMIC CHROME		0	
EXTERIOR SUNVISOR	EXTERIOR SUN VISOR WITH CLEAR LENS LED MARKER LAMPS	0	0	0.0

## CAB INTERIOR

INTERIOR TRIM PACKAGE	LIMITED - PREMIUM CLOTH PANELS WITH WOOD GRAIN TRIM		0	
DRIVER SEAT MFG AND SERIES	NATIONAL DRIVER SEAT	0	0	0.0
DRIVER SEAT PROFILE	STANDARD WIDTH, HIGH BACK	0	0	0.0
DRIVER SEAT	X5 WREN VINYL / WREN CLOTH		0	
DRIVER SEAT SUPPORT	DRIVER SEAT - AIR SUSPENDED, ADJUSTABLE SHOCK	0	0	
DRIVER SEAT COMFORT	DRIVER SEAT - TWO AIR ADJUSTABLE LUMBAR CHAMBERS, BACK CYCLER MASSAGE	0	0	0.0

PASSENGER SEAT MANUFACTURER AND SERIES	NATIONAL PASSENGER SEAT	0	0	0.0
PASSENGER SEAT PROFILE	STANDARD WIDTH, HIGH BACK	0	0	0.0
PASSENGER SEAT	X5 WREN VINYL / WREN CLOTH		0	
PASSENGER SEAT SUPPORT	PASSENGER SEAT - AIR SUSPENDED		0	
PASSENGER SEAT COMFORT	PASSENGER SEAT - TWO AIR ADJUSTABLE LUMBAR CHAMBERS, BACK CYCLER MASSAGE	0	0	
SEAT ARMREST	INBOARD DRIVER AND PASS SEAT ARMREST		0	
SEAT SUPPORT, DUST COVER	SEAT BASE DUST COVER, BOTH SIDES	0	0	0.0
SAFETY BELT LENGTH	STANDARD SAFETY BELT LENGTH	0	0	0.0
SAFETY BELT DRIVER SEAT	SAFETY BELT DRIVER SEAT, BLACK	0	0	0.0
SAFETY BELT PASSENGER SEAT	SAFETY BELT PASSENGER SEAT, BLACK	0	0	0.0
EXTRA CAB INSULATION	CAB & LUGGAGE COMPARTMENT DOOR INSULATION		0	
CLIMATE UNIT	INTEGRAL AIR CONDITIONER WITH HEATER - MANUAL CONTROLS	0	0	0.0
SLEEPER CONTROL PANEL	DELUXE SLEEPER CONTROL PANEL	0	0	0.0
PARKING HEATER	CAB PARKING HEATER			
FLOOR MATS	FRONT FLOOR INSERTS, RUBBER	0	0	0.0
FLOOR COVERING, REAR	CARPETED REAR FLOOR COVERING, CARPETED INSERT WHERE AVAILABLE	0	0	
WORKSTATION, SLEEPER	STOWABLE TRAY TABLE MOUNTED ON REAR WALL			
MATTRESS	39" X 81" RECLINING LOWER BUNK, 32" X 78" FOLDABLE UPPER BUNK WITH FOAM MATTRESS			
LOWER MATTRESS TYPE	PREMIUM INNERSPRING MATTRESS			
WINDSHIELD CURTAIN	WINDSHIELD CURTAIN		0	
STORAGE OVERHEAD DRIVER	NETTED OVERHEAD STORAGE (DRIVER/ PASSENGER SIDES) WITH CB MOUNTING AND AUXILIARY SWITCHES	0	0	0.0
STORAGE FORWARD HEADLINER	FORWARD HEADLINER STORAGE		0	
TOWER CABINET, DRIVER SIDE UPPER	DRIVER SIDE UPPER AUXILIARY 12 VOLT DC PREP WITH FASCIA			
TOWER CABINET, PASSENGER SIDE UPPER	PASSENGER SIDE UPPER CABINET WITH FLAT SCREEN TV PREP			
TOWER CABINET, DRIVER SIDE LOWER	DRIVER SIDE REFRIGERATOR CABINET WITH TABLE AND STORAGE BEHIND SEAT			
TOWER CABINET, PASSENGER SIDE LOWER	PASSENGER SIDE LOWER WARDROBE W/ DOORS	0	0	0.0
STEERING WHEEL ADJUSTMENT	POSITION PERFECT STEERING WHEEL		0	
STEERING WHEEL	STANDARD STEERING WHEEL COVERING	0	0	0.0
GAUGE PACKAGE	TEN GAUGE INSTRUMENT CLUSTER	0	0	
GAUGE EXHAUST PYROMETER	EXHAUST PYROMETER GAUGE	0	0	
TRANSMISSION TEMPERATURE GAUGE	NO TRANSMISSION TEMP GAUGE PROVIDED	0	0	0.0
TRIP METER	TRIP METER, TWO TRIPS	0	0	0.0
AIR RESTRICTION INDICATOR	GRADUATED ARI ON FILTER WITH GRAPHIC SYMBOL IN DRIVER MESSAGE CENTER		0	
SPEEDOMETER GRADUATION	MPH SPEEDOMETER GRADUATION	0	0	0.0

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## LIGHTING

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SPOTTING LAMP, BACK OF CAB	SINGLE BACK OF CAB SPOTTING LAMP, FLUSH MOUNTED			
FOG LAMPS	TWO FOG LAMPS - WHITE			
DRIVING LAMPS	TWO DRIVING LAMPS - WHITE			
HEADLAMPS	LED HEADLAMPS WITH BASIC DRL	0		0.0
DAYTIME RUNNING LAMPS	EQUIPPED WITH DAYTIME RUNNING LIGHTS	0		0.0
STOP AND TAIL LIGHTS	DUAL INTEGRATED SUPER 60 LED TAIL LIGHTS WITH SEPARATE LED BACKUP LIGHT - ALL LIGHTS MOUNTED IN TAPERED CROSSMEMBER	0	0	0.0
TURN SIGNAL SWITCH	SELF CANCELLING TURN SIGNAL SWITCH	0		0.0

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## AUDIO SYSTEM

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RADIO PACKAGE	HIGH LEVEL AUDIO / INFOTAINMENT WITH NAVIGATION (TOMTOM)		0		
REMOTE CONTROL IN CAB	WITHOUT REMOTE CONTROL IN CAB	0	0		0.0
RADIO ANTENNA	SINGLE RIGHT HAND 48 INCH MIRROR MOUNTED RADIO ANTENNA		0		0.0
MARKER INTERRUPTER SWITCH	MARKER INTERRUPTER SWITCH	0	0		
RADIO SPEAKERS	SPEAKERS IN DASHBOARD, DOOR, AND REAR CAB	0			
CB RADIO MOUNTING	OVERHEAD MOUNTED CB HOLD DOWN	0	0		0.0
CB ANTENNA	SINGLE LEFT HAND 48 INCH MIRROR MOUNTED CB ANTENNA	0	0		0.0

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## MISC CAB EQUIPMENT

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WINDOW LIFT	POWER WINDOW LIFT BOTH DOORS				0.0
DOOR LOCKS CAB	REMOTE CONTROL DOOR LOCK, BOTH DOORS		0		
KEY TYPE	BASIC UNIQUE KEY	0	0		0.0
KEY QUANTITY PER UNIT	4 KEYS PROVIDED PER UNIT	0	0		0.0
TV EQUIPMENT	TV PREP KIT WITH ANTENNA AND 12V WIRING	0	0		0.0
MICROWAVE	120V AUXILIARY OR MICROWAVE PREP KIT	0	0		0.0
REFRIGERATOR	INDEL-B 2.1 CUBIC FOOT REFRIGERATOR / FREEZER				
AUXILIARY POWER SUPPLY	120V SHORE POWER KIT				
FIRE EXTINGUISHER	5 POUND ABC DRY TYPE, RECHARGEABLE, MOUNTED IN CAB				
AUXILIARY SAFETY EQUIPMENT	TRIANGLE REFLECTOR KIT				

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## TIRES AND WHEELS FRONT

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TIRE CLASSIFICATION FRONT	GHG FRONT TIRE CLASSIFICATION, ADVANCED LOW ROLLING RESISTANCE	0	0		0.0
RIM/WHEEL PACKAGE FRONT	22.5X8.25 ALCOA POLISHED ALUMINUM 286BC HUB PILOTED		0		
HUB/WHEEL ISOLATOR FRONT	NYLON FRONT HUB/WHEEL ISOLATOR	0	0		
WHEEL BRIGHTWORK FRONT	CHROME FRONT NUT CAPS		0		
FRONT WHEEL AND TIRE QUANTITY	TWO FRONT WHEELS AND TIRES	0	0		0.0

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## TIRES AND WHEELS REAR

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TIRE CLASSIFICATION REAR	GHG REAR TIRE CLASSIFICATION, LOW ROLLING RESISTANCE	0	0	0.0
RIM/WHEEL PACKAGE REAR	22.5X8.25 ALCOA POLISHED ALUMINUM 286BC HUB PILOTTED	0		
HUB/WHEEL ISOLATOR DRIVE	NYLON DRIVE HUB / WHEEL AND WHEEL / WHEEL ISOLATORS	0	0	
WHEEL BRIGHTWORK DRIVE	CHROME REAR AXLE COVERS AND NUT CAPS	0		
DRIVE WHEEL AND TIRE QUANTITY	EIGHT DRIVE WHEELS AND TIRES	0	0	0.0

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## MISC TIRE EQUIPMENT

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TIRE INFLATION VALVE	FLOW THROUGH INFLATOR CAP	0		
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## PAINT

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CAB PAINT SCHEME	SINGLE COLOR PAINT	0	0	0.0
FIRST TRUCK COLOR	GLACIER WHITE; P3029	0	0	0.0
CAB COLOR	CAB SAME AS FIRST COLOR	0	0	0.0
HOOD COLOR	HOOD SAME AS FIRST COLOR	0	0	0.0
COWL COLOR	COWL SAME AS FIRST COLOR	0	0	0.0
SLEEPER ROOF COLOR	SLEEPER ROOF SAME AS FIRST COLOR	0	0	0.0
BUMPER COLOR	BUMPER SAME AS FIRST COLOR	0	0	0.0
CHASSIS FAIRING COLOR	CHASSIS FAIRING SAME AS FIRST COLOR	0	0	0.0
ROOF FAIRING COLOR	ROOF FAIRING SAME AS FIRST COLOR	0	0	0.0
SUN VISOR COLOR	SUN VISOR SAME AS FIRST COLOR	0	0	0.0
CHASSIS COLOR	BLACK P3036	0	0	0.0
DISC WHEEL OR RIM COLOR	STEEL DISC WHEELS-PREPAINTED WHITE, POWDER-COAT, ALUMINUM OR STYLIZED DISC-UNPAINTED	0	0	0.0

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## BUSINESS SERVICES

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PRE-DELIVERY INSPECTION	PRE-DELIVERY INSPECTION, BASIC	0	0	0.0
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## BASE WARRANTY AND PURCHASED COVERAGES

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WARRANTY TYPE	NORMAL_DUTY_STAND ARD_BASE_COVERAGE 12_MONTHS/100,000_MILES	0	0	0.0
ENGINE EXTENDED COVERAGE	BASE ENGINE COVERAGE - 24MTHS/250K MILES	0	0	0.0
VEHICLE EMISSIONS COMPONENTS COVERAGE	US & CANADA VOLVO ENGINE EQUIPPED VEHICLE EMISSIONS COMPONENTS COVERAGE_60 MONTHS/100K_MILES	0	0	0.0
TRANSMISSION COVERAGE	60 MO/750K MI: STANDARD I-SHIFT WARRANTY, NORMAL DUTY VEHICLE	0	0	0.0
ADDITIONAL EXTENDED CHASSIS TOWING COVERAGE	BASE CHASSIS TOWING COVERAGE, 90 DAY/5000 MILE/8050 KILOMETER	0	0	0.0
ADDITIONAL EXTENDED ENGINE TOWING COVERAGE	BASE ENGINE TOWING COVERAGE, 24 MO/250K MILE	0	0	0.0
MATERIALS SURCHARGE	MATERIALS SURCHARGE NET/NET NO DISCOUNT	0	0	

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REMOTE DIAGNOSTICS BUNDLE	24 MONTHS	0	0	0.0
UPTIME CENTER BUNDLE	24 MONTHS	0	0	0.0

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Front Weight	Rear Weight	Total List Price
9957	8022	

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