

CONSENT ITEM

RE: Modot State Bid - Viking / International 2 Ton Truck

DEPARTMENT: Public Works

PROGRAM: Support Trucks- 01-02-28-221502

RECOMMENDATION: We recommend accepting Navistar International/Viking Cives State bid in the Amount of \$162,377.74 for One 2 Ton Truck/Body/Salt Spreader and Plow.

EXPLANATION: In the 2019 Budget we budgeted for a 2 ton Dump Truck for replacement. This year Modot has requested that all Truck Manufacturers supply an option of a Cummins Engine in the Cab and Chassis that were submitted to the Missouri State Bid. In 2017 we had similar engine issues along with Modot and the International Max Force engines. Therefore in 2018 we went with the second low Bid to avoid costly engine related issues. This has allowed us to obtain the Cummins Engine/Allison Transmission while also taking advantage of the pricing of the International Cab and Chassis.

Modot # 3-140214RJ	Make	Model	Cab and Chassis	Body	TOTAL
Vanguard Truck	Mack	Granite	\$100,070.00	\$92,458.00	\$192,528.00
Navistar	International	HV507 SFA	\$69,919.74	\$92,458.00	\$162,377.74
Sourcewell Quote					
Tag/Viking Cives	Freightliner	108SD	\$83,880.00	\$92,458.00	\$176,338.00
TOTAL BUDGET= \$183,000.00					Truck/Body/Plow/Spreader/Linex-Armour Seal

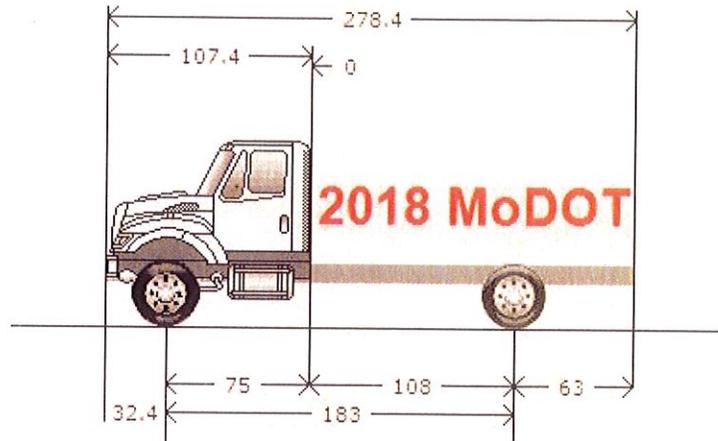
SUBMITTED BY: Jim Link, Director of Public Works

DATE: 2/19/2019

Prepared For:
 City of Ballwin
 Jim Link
 200 Park Dr.
 Ballwin, MO 63011-3728
 (636)227 - 9000
 Reference ID: N/A

Presented By:
 INT'L TRK & ENGINE CORP
 Martin White
 900 S HIGHWAY DR STE 103
 FENTON MO 63026 -
 (636)343-6800

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
2020 HV507 SFA (HV507)

AXLE CONFIG:	4X2
APPLICATION:	Front Plow with spreader
MISSION:	Requested GVWR: 35000. Calc. GVWR: 37000 Calc. Start / Grade Ability: 32.14% / 2.79% @ 55 MPH Calc. Geared Speed: 73.4 MPH
DIMENSION:	Wheelbase: 183.00, CA: 108.00, Axle to Frame: 63.00
ENGINE, DIESEL:	{Cummins L9 300} EPA 2017, 300HP @ 2000 RPM, 860 lb-ft Torque @ 1300 RPM, 2200 RPM Governed Speed, 300 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 3000 RDS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, On/Off Highway
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-16-143A} Wide Track, I-Beam Type, 16,000-lb Capacity
AXLE, REAR, SINGLE:	{Meritor MS-21-14X-4DFR} Single Reduction, 21,000-lb Capacity, R Wheel Ends Gear Ratio: 5.57
CAB:	Conventional
TIRE, FRONT:	(2) 315/80R22.5 Load Range L G289 WHA (GOODYEAR), 484 rev/mile, 68 MPH, All-Position
TIRE, REAR:	(4) 11R22.5 Load Range G G622 RSD (GOODYEAR), 497 rev/mile, 75 MPH, Drive
SUSPENSION, REAR, SINGLE:	23,500-lb Capacity, Vari-Rate Springs
PAINT:	Cab schematic 100WK Location 1: 9219, Winter White (Std) Chassis schematic N/A

<u>Code</u>	<u>Description</u>	<u>List</u> (US DOLLAR)
HV50700	Base Chassis, Model HV507 SFA with 183.00 Wheelbase, 108.00 CA, and 63.00 Axle to Frame.	\$86,329.00
1570	TOW HOOK, FRONT (2) Frame Mounted	\$84.00
1572	TOW HOOK, REAR (2)	\$75.00
1ANA	AXLE CONFIGURATION {Navistar} 4x2	\$0.00
	<u>Notes</u> : Pricing may change if axle configuration is changed.	
1CAJ	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x 0.433" (276.0mm x 92.0mm x 11.1mm); 456.0" (11582mm) Maximum OAL	\$783.00
1LLK	BUMPER, FRONT Omit Item	(\$30.00)
1WDS	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille	\$590.00
1WEV	WHEELBASE RANGE 146" (370cm) Through and Including 195" (495cm)	\$0.00
1WMA	CROSSMEMBER, INTERMEDIATE (1) 5-Piece ilo Each Single Dogbone with 4x2, 4x4 Chassis and Each Double Dogbone with 6x4, 6x6 and 8x6 Tridem Chassis	\$429.00
2ARU	AXLE, FRONT NON-DRIVING {Meritor MFS-16-143A} Wide Track, I-Beam Type, 16,000-lb Capacity	\$2,100.00
3ADE	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 16,000-lb Capacity, with Shock Absorbers	\$350.00
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications	\$0.00
	<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 : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic (with Air Cam Brakes) : SLACK ADJUSTERS, REAR Automatic (with Air Cam Brakes) : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6	
4193	BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers	\$265.00
4619	TRAILER CONNECTIONS Four-Wheel, with Hand Control Valve and Tractor Protection Valve, for Straight Truck	\$542.00
4732	DRAIN VALVE {Berg} with Pull Chain, for Air Tank	\$0.00
4AZA	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)	\$0.00
4EBT	AIR DRYER {Bendix AD-IP} with Heater	\$526.00
4EXU	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Spring Brake	\$0.00
4EXV	BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 SqIn	\$0.00
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	\$0.00
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM Capacity	\$0.00
4VGN	AIR TANK Painted Aluminum, with Straight Thread O-Ring Ports	\$432.00

<u>Code</u>	<u>Description</u>	<u>List</u> (US DOLLAR)
8VUL	BATTERY BOX Steel, with Plastic Cover, 18" Wide, 2-4 Battery Capacity, Mounted Left Side Back of Cab	\$177.00
8WGD	SOLENOID, AIR for Customer Use; Provides (4) Normally Closed Pilot Air Source, Approx. 4 CFM, Includes Latched Switch in Cab; Air Available Only with Key in "Ignition" or "Accessory" Position; Air Will Exhaust with Key in "Off" Position	\$259.00
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time	\$26.00
8WMA	SWITCH, TOGGLE, FOR WORK LIGHT Lighted; on Instrument Panel and Wiring Effects for Customer Furnished Back of Cab Light	\$59.00
8WPH	CLEARANCE/MARKER LIGHTS (5) (Truck Lite) Amber LED Lights, Flush Mounted on Cab or Sunshade	\$0.00
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on	\$22.00
8WTK	STARTING MOTOR (Delco Remy 38MT Type 300) 12 Volt; less Thermal Over-Crank Protection	\$0.00
8WTP	COURTESY LIGHT (2) Mounted In Front Map Pocket Left and Right Side	\$48.00
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm	\$0.00
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses	\$0.00
8XGT	TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender	\$0.00
8XHN	HORN, AIR Black, Single Trumpet, with Lanyard Pull Cord	\$94.00
9AAB	LOGOS EXTERIOR Model Badges	\$0.00
9AAE	LOGOS EXTERIOR, ENGINE Badges	\$0.00
9HBM	GRILLE Stationary, Chrome	\$0.00
9WAC	BUG SCREEN Mounted Behind Grille	\$131.00
9WBC	FRONT END Tilting, Fiberglass, with Three Piece Construction; for WorkStar/HV	\$0.00
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100	\$0.00
	<u>Includes</u> : PAINT SCHEMATIC ID LETTERS "WK"	
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	\$0.00
10SLV	PROMOTIONAL PACKAGE Government Silver Package	\$0.00
10WCY	SAFETY TRIANGLES	\$29.00
11001	CLUTCH Omit Item (Clutch & Control)	\$0.00
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection	\$0.00
12849	BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines	\$98.00
	<u>Includes</u> : BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door	
12851	PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted	\$353.00

<u>Code</u>	<u>Description</u>	<u>List</u> (US DOLLAR)
12EHU	ENGINE, DIESEL {Cummins L9 300} EPA 2017, 300HP @ 2000 RPM, 860 lb-ft Torque @ 1300 RPM, 2200 RPM Governed Speed, 300 Peak HP (Max)	\$7,875.00
12THT	FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual Torque Device for Disengaged Fan Speed <u>Includes</u> : FAN Nylon	\$0.00
12UWY	RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core and 1167 SqIn Charge Air Cooler <u>Includes</u> : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber	\$0.00
12VBB	AIR CLEANER Dual Element	\$108.00
12VGZ	FEDERAL EMISSIONS {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2019	\$0.00
12VXV	THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Mobile, Variable Speed; (Range 2 to 20 MPH) Mounted on Steering Wheel	\$0.00
12WZE	EMISSION COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations	\$0.00
12XAT	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; with Ignition Switch Control for Cummins ISB/B6.7 or ISL/L9 Engines	\$45.00
13AVR	TRANSMISSION, AUTOMATIC {Allison 3000 RDS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, On/Off Highway	\$10,133.00
13WAW	OIL COOLER, AUTO TRANSMISSION {Modine} Water to Oil Type	\$667.00
13WET	TRANSMISSION SHIFT CONTROL for Column Mounted Stalk Shifter	\$50.00
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints	\$203.00
13WUC	ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction	\$0.00
13WYH	TRANSMISSION TCM LOCATION Located Inside Cab	\$141.00
13WYU	SHIFT CONTROL PARAMETERS Allison 3000 or 4000 Series Transmissions, 5th Generation Controls, Performance Programming	\$0.00
13XAM	PTO LOCATION Dual, Left and Right Side of Transmission	\$0.00
14ANV	AXLE, REAR, SINGLE {Meritor MS-21-14X-4DFR} Single Reduction, 21,000-lb Capacity, R Wheel Ends . Gear Ratio: 5.57	\$139.00
14SAN	SUSPENSION, REAR, SINGLE 23,500-lb Capacity, Vari-Rate Springs	\$87.00
15DYP	DEF TANK 9.5 US Gal (36L) Capacity, Frame Mounted Outside Left Rail, Under Cab	\$89.00
15LLZ	LOCATION FUEL/WATER SEPARATOR Mounted Outside Left Rail, 41" Back of Cab	\$50.00
15LMN	FUEL/WATER SEPARATOR {Racor 400 Series,} 12 VDC Electric Heater, Includes Pre-Heater, with Primer Pump, Includes Water-in-Fuel Sensor	\$123.00

<u>Code</u>	<u>Description</u>	<u>List</u> (US DOLLAR)
15SWE	FUEL TANK Top Draw, Non-Polished Aluminum, 26" Dia, 70 US Gal (265L), Mounted Left Side, Under Cab	\$303.00
16030	CAB Conventional	\$0.00
16BAM	AIR CONDITIONER with Integral Heater & Defroster	\$923.00
16GDC	GAUGE CLUSTER Base Level; English with English Speedometer and Tachometer, for Air Brake Chassis, Includes Engine Coolant Temperature, Primary and Secondary Air Pressure, Fuel and DEF Gauges, Oil Pressure Gauge, Includes 3 Inch Monochromatic Text Display	\$0.00
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission	\$48.00
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} with Black Bezel Mounted in Instrument Panel	\$30.00
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	\$0.00
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	\$116.00
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	\$508.00
16SNR	MIRRORS (2) Power Adjust, Thermostatically Controlled Heated Heads, LED Clearance Lights, Bright Finish Heads and Arms, Black Brackets, 7.55" x 14.1" Flat Glass, 7.48" x 6.77" Convex Glass Both Sides	\$442.00
16VCC	SEAT BELT All Orange; 1 to 3	\$26.00
16VKB	CAB INTERIOR TRIM Classic, for Day Cab	\$0.00
	<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	
16WBY	ARM REST, RIGHT, DRIVER SEAT	\$39.00
16WBZ	ARM REST, LEFT, PASSENGER SEAT	\$39.00
16WJU	WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature	\$367.00
16WSK	CAB REAR SUSPENSION Air Bag Type	\$0.00
16XJN	INSTRUMENT PANEL Flat Panel	\$0.00
16ZBT	ACCESS, CAB Steel, Driver & Passenger Sides, Two Steps Per Door, for use with Regular and Extended Cabs	\$0.00
27DPN	WHEELS, FRONT {Accuride 29039} DISC; 22.5x9.00 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs, Non-Standard Offset, with .5" Thick Disc	\$224.00
28DUK	WHEELS, REAR {Accuride 29169} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 5-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and Steel Hubs	\$127.00

<u>Description</u>	(US DOLLAR)	<u>Price</u>
Net Sales Price:		\$69,919.74
Memo Item(s):		
Total Federal Excise Tax	\$0.00	
Total Taxes:	\$0.00	
Warranty:	\$0.00	
Body/Allied Equipment:	\$0.00	
Note: Memo item(s) shown here are included in the above Net Sales Price.		

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

Approved by Seller:

Accepted by Purchaser:

Official Title and Date

Firm or Business Name

Authorized Signature

Authorized Signature and Date

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

Official Title and Date

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

Prepared for:
Daniel Wheeler
Viking Cives Midwest
PO Box 295
Morley, MO 63767
Phone: 573-262-3545



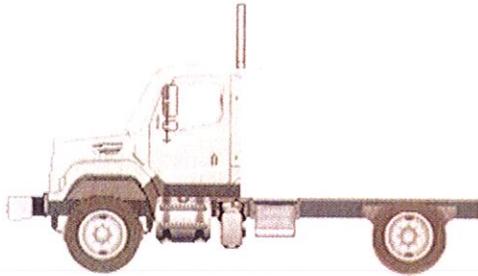
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A proposal for
Viking Cives Midwest

Prepared by
Dustin Waters

Oct 29, 2018

Freightliner 108SD



Components shown may not reflect all spec'd options and are not to scale



Prepared for:
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S P E C I F I C A T I O N P R O P O S A L

Data Code	Description
Price Level	
PRL-18D	SD PRL-18D (EFF:04/17/18)
Data Version	
DRL-027	SPECPRO21 DATA RELEASE VER 027
Vehicle Configuration	
N	001-176 108SD CONVENTIONAL CHASSIS
	004-220 2020 MODEL YEAR SPECIFIED
	002-004 SET BACK AXLE - TRUCK
	019-001 TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK
	003-001 LH PRIMARY STEERING LOCATION
General Service	
AA1-003	TRUCK/TRAILER CONFIGURATION
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE
A84-1GM	GOVERNMENT BUSINESS SEGMENT
AA4-010	DIRT/SAND/ROCK COMMODITY
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
AB1-008	MAXIMUM 8% EXPECTED GRADE
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 16000.0 lbs
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 23000.0 lbs
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 39000.0 lbs
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs



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Data Code	Description
Truck Service	
AA3-018	FRONT PLOW/END DUMP BODY
AF3-2B1	VIKING-CIVES MIDWEST
Tractor Service	
AA2-005	FLATBED TRAILER
AH6-001	SINGLE (1) TRAILER
Engine	
101-22U	CUM L9 350 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM
Electronic Parameters	
79A-065	65 MPH ROAD SPEED LIMIT
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND
80F-001	AUTOMATIC MAINTENANCE MONITOR WITH ALERT AT 5% OF INTERVAL REMAINING
80G-002	PTO MINIMUM RPM - 700
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH
Engine Equipment	
99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION
99D-009	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LEFT SIDE OF HOOD)
13E-001	STANDARD OIL PAN
105-001	ENGINE MOUNTED OIL CHECK AND FILL
014-1C5	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER AND INSIDE/OUTSIDE AIR WITH SNOW DOOR
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE
292-208	(2) DTNA GENUINE, FLOODED STARTING, MIN 2250CCA, 390RC, THREADED STUD BATTERIES



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Data Code	Description
290-017	BATTERY BOX FRAME MOUNTED
281-001	STANDARD BATTERY JUMPERS
282-003	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN
289-001	NON-POLISHED BATTERY BOX COVER
87P-001	CAB AUXILIARY POWER CABLE
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE
152-040	ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM
128-1AR	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH, ACTIVATES STOP LAMPS
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH
239-020	10 FOOT 00 INCH (120 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING
23Z-001	POLISHED ALUMINUM DIESEL EXHAUST FLUID TANK COVER
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED



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Data Code	Description
110-003	CUMMINS SPIN ON FUEL FILTER
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER
266-104	1115 SQUARE INCH ALUMINUM RADIATOR
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES
270-016	RADIATOR DRAIN VALVE
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR
132-004	ELECTRIC GRID AIR INTAKE WARMER
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH

Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
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Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84E-017	S5 PERFORMANCE LIMITING PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84F-016	S5 PERFORMANCE LIMITING SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84G-014	2200 RPM PRIMARY MODE SHIFT SPEED
84H-014	2200 RPM SECONDARY MODE SHIFT SPEED



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Data Code	Description
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE
84N-000	NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS
353-022	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT BACK OF CAB
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)

Front Axle and Equipment

400-1A9	DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
402-013	MERITOR 16.5X6 Q+ CAST SPIDER HEAVY DUTY CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
403-002	NON-ASBESTOS FRONT BRAKE LINING
419-023	CONMET CAST IRON FRONT BRAKE DRUMS
427-001	FRONT BRAKE DUST SHIELDS
409-006	FRONT OIL SEALS
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES

Application Version 10.1.105
Data Version PRL-18D.027
Viking Spring 2019 SA



10/29/2018 11:46 AM

Prepared for:
 Daniel Wheeler
 Viking Cives Midwest
 PO Box 295
 Morley, MO 63767
 Phone: 573-262-3545



Prepared by:
 Dustin Waters
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 Phone: 219-949-8595

Data Code	Description
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS
406-001	STANDARD KING PIN BUSHINGS
536-012	TRW TAS-85 POWER STEERING
539-003	POWER STEERING PUMP
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR
40T-002	SYNTHETIC 75W-90 FRONT AXLE LUBE
Front Suspension	
620-013	18,000# TAPERLEAF FRONT SUSPENSION
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION
62H-010	FRONT SUSPENSION WITH LEFT HAND OFFSET SHACKLE BRACKET
410-001	FRONT SHOCK ABSORBERS
Rear Axle and Equipment	
N 420-227	RS-23-186 23,000# R-SERIES SINGLE REAR AXLE
421-614	6.14 REAR AXLE RATIO
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES
452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE
878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE
87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH
423-033	MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
433-002	NON-ASBESTOS REAR BRAKE LINING
434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)
451-023	CONMET CAST IRON REAR BRAKE DRUMS
425-002	REAR BRAKE DUST SHIELDS
440-006	REAR OIL SEALS
426-1B2	BENDIX EVERSURE LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS



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Data Code	Description
41T-002	SYNTHETIC 75W-90 REAR AXLE LUBE
42T-001	STANDARD REAR AXLE BREATHER(S)
Rear Suspension	
N 622-1DF	30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
621-001	SPRING SUSPENSION - NO AXLE SPACERS
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP
623-005	FORE/AFT CONTROL RODS
Brake System	
490-100	WABCO 4S/4M ABS
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
904-001	FIBER BRAID PARKING BRAKE HOSE
412-001	STANDARD BRAKE SYSTEM VALVES
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM
413-002	STD U.S. FRONT BRAKE VALVE
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER
479-006	AIR DRYER MOUNTED OUTBOARD ON RH RAIL
460-007	ALUMINUM AIR BRAKE RESERVOIRS
607-003	CLEAR FRAME RAIL 36 INCHES FROM BACK OF CAB OUTBOARD OF LH FRAME RAIL
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)
Trailer Connections	
914-025	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND DUST COVERS
296-010	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT
Wheelbase & Frame	
545-380	3800MM (150 INCH) WHEELBASE
546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI

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Data Code	Description
548-803	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW
552-030	1600MM (63 INCH) REAR FRAME OVERHANG
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 84.45 in
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 81.45 in
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 277.75
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 84.45 in
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 23.48 in
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 100.55 in
553-001	SQUARE END OF FRAME
550-001	FRONT CLOSING CROSSMEMBER
559-003	LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)
572-001	STANDARD REARMOST CROSSMEMBER
565-001	STANDARD SUSPENSION CROSSMEMBER

Chassis Equipment

556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED SPECIAL BUMPER, DOES NOT COMPLY WITH FMCSR 393.203
558-001	FRONT TOW HOOKS - FRAME MOUNTED
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS

Fuel Tanks

204-152	70 GALLON/264 LITER ALUMINUM FUEL TANK - LH
218-001	23 INCH DIAMETER FUEL TANK(S)
215-006	POLISHING OF FUEL/HYDRAULIC TANK(S) WITH POLISHED STAINLESS STEEL BANDS
212-007	FUEL TANK(S) FORWARD
664-002	POLISHED STEP FINISH
205-002	CHROME FUEL TANK CAP(S)



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Data Code	Description
122-1H4	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR AND 12 VOLT PREHEATER
216-020	EQUIFLO INBOARD FUEL SYSTEM
11F-998	NO NATURAL GAS VEHICLE FUEL TANK VENT LINE/STACK
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE
Tires	
093-1PB	CONTINENTAL CITY SERVICE HA3 315/80R22.5 20 PLY RADIAL FRONT TIRES
094-2EF	BRIDGESTONE M770 11R22.5 16 PLY RADIAL REAR TIRES
Hubs	
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Wheels	
502-433	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS
505-524	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS
Cab Exterior	
829-1A5	108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
650-008	AIR CAB MOUNTING
705-012	CAB ROOF REINFORCEMENTS FOR ROOF MOUNTED COMPONENTS
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE
667-037	SHORT FENDER WITH MUDFLAP
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT
646-041	STATIONARY BLACK GRILLE
65X-004	BLACK HOOD MOUNTED AIR INTAKE GRILLE
644-004	FIBERGLASS HOOD
690-007	HOOD LINER INSULATION WITH SINGLE FIREWALL INSULATION



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Data Code	Description
727-1AF	SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK
726-002	DUAL ELECTRIC HORNS
728-001	SINGLE HORN SHIELD
657-1CV	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME WITH (4) KEYS
575-001	REAR LICENSE PLATE MOUNT END OF FRAME
312-068	HALOGEN COMPOSITE HEADLAMPS WITH BLACK BEZELS
302-001	(5) AMBER MARKER LIGHTS
294-042	FREIGHTLINER LED FLANGE MOUNTED STOP/TAIL/TURN LIGHTS WITH SEPARATE INCANDESCENT BACKUP LIGHTS
300-015	STANDARD FRONT TURN SIGNAL LAMPS
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE
797-001	DOOR MOUNTED MIRRORS
796-001	102 INCH EQUIPMENT WIDTH
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS
729-001	STANDARD SIDE/REAR REFLECTORS
677-055	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER
768-043	63X14 INCH TINTED REAR WINDOW
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)
663-029	1-PIECE TINTED CURVED BONDED WINDSHIELD WITH HEATED WIPER BLADE PARK AREAS
659-007	8 LITER WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR
Cab Interior	
707-1AK	OPAL GRAY VINYL INTERIOR
706-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR
708-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR
772-006	BLACK MATS WITH SINGLE INSULATION



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Data Code	Description
785-004	DASH MOUNTED ASH TRAY(S) WITHOUT LIGHTER
691-998	NO FORWARD ROOF MOUNTED CONSOLE
742-007	(2) CUP HOLDERS LH AND RH DASH
680-007	GRAY/CHARCOAL WING DASH
860-004	SMART SWITCH EXPANSION MODULE
720-003	5 LB. FIRE EXTINGUISHER
714-001	FIRST AID KIT
700-002	HEATER, DEFROSTER AND AIR CONDITIONER
701-001	STANDARD HVAC DUCTING
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH
170-019	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR
702-002	BINARY CONTROL, R-134A
739-034	PREMIUM INSULATION
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM
324-011	DOMED DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF
655-005	LH AND RH ELECTRIC DOOR LOCKS
284-023	(1) 12 VOLT POWER SUPPLY IN DASH
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES
756-1E1	ELITE HIGH BACK AIR SUSPENSION DRIVER SEAT WITH HEAT, 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT AND ADJUSTABLE SHOCK
760-1J2	BASIC HIGH BACK NON SUSPENSION TOOL BOX PASSENGER SEAT
759-007	DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER
763-101	BLACK SEAT BELTS
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN



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Data Code	Description
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS

Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL
734-004	GRAY CENTER INSTRUMENT PANEL
870-001	BLACK GAUGE BEZELS
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES
198-002	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS
721-025	97 DB BACKUP ALARM MOUNTED INBOARD OF RAIL
149-017	ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH
844-001	2 INCH ELECTRIC FUEL GAUGE
845-010	MPG FUEL TRIP GAUGE, TOTAL AND RATE
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY
372-051	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE
679-001	OVERHEAD INSTRUMENT PANEL
35M-007	SMARTPLEX HUB MODULE WITH OVERHEAD SWITCH MOUNTING, DRIVER SIDE AND CENTER CONSOLE (18 SWITCH SLOTS, NO CB)



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Data Code	Description
746-115	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939
747-001	DASH MOUNTED RADIO
750-002	(2) RADIO SPEAKERS IN CAB
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER
817-008	STANDARD VEHICLE SPEED SENSOR WITH ADDITIONAL SIGNAL FOR CUSTOMER USE LOCATED BETWEEN DRIVER AND PASSENGER SEATS
812-001	ELECTRONIC 3000 RPM TACHOMETER
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP
44R-010	10 ON/OFF LATCHING SMARTPLEX SWITCHES
44W-332	3-RED, 3-AMBER, 2-GREEN SMARTPLEX INDICATOR LAMPS
482-001	BW TRACTOR PROTECTION VALVE
883-001	TRAILER HAND CONTROL BRAKE VALVE
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY
304-039	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH AND DUAL CONNECTORS AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS, LOW BEAMS OFF WITH HIGH BEAMS
882-021	TWO VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS

Design

065-000 PAINT: ONE SOLID COLOR

Color

980-5F6 CAB COLOR A: L0006EB WHITE ELITE BC

986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT



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QUOTATION

108SD CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK
 CUM L9 350 HP @ 2000 RPM, 2200 GOV RPM, 1000
 LB/FT @ 1400 RPM
 ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH
 PTO PROVISION
 RS-23-186 23,000# R-SERIES SINGLE REAR AXLE
 30,000# FLAT LEAF SPRING REAR SUSPENSION WITH
 HELPER AND RADIUS ROD
 DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74 DROP
 SINGLE FRONT AXLE

18,000# TAPERLEAF FRONT SUSPENSION
 108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL
 CAB
 3800MM (150 INCH) WHEELBASE
 7/16X3-9/16X11-1/8 INCH STEEL FRAME
 (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
 1600MM (63 INCH) REAR FRAME OVERHANG
 BODY COMPANY INSTALLED ADDITIONAL FRONT
 FRAME REINFORCEMENT FOR SNOW PLOW

	TOTAL # OF UNITS (1)	PER UNIT	TOTAL
VEHICLE PRICE	\$	83,880 \$	83,880
EXTENDED WARRANTY	\$	4,683 \$	4,683
DEALER INSTALLED OPTIONS	\$	0 \$	0
CUSTOMER PRICE BEFORE TAX	\$	88,563 \$	88,563
TAXES AND FEES			
FEDERAL EXCISE TAX (FET)	\$	(240) \$	(240)
TAXES AND FEES	\$	0 \$	0
OTHER CHARGES	\$	0 \$	0
TRADE-IN			
TRADE-IN ALLOWANCE	\$	(0) \$	(0)
BALANCE DUE	(LOCAL CURRENCY) \$	88,323 \$	88,323

COMMENTS:

Projected delivery on ___ / ___ / ___ provided the order is received before ___ / ___ / ___.

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.

Daimler Truck Financial

Financing that works for you.

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Vanguard Truck Center of St. Louis NEW VEHICLE PURCHASE ORDER

2/8/2019

(DATE)

City of Ballwin

(PURCHASER)

14811 Manchester Road

(ADDRESS)

Ballwin, MO 63011

(CITY, STATE, ZIP)

Telephone(s) 636-227-9000

Fax Number 0

The undersigned Purchaser hereby orders from Vanguard Truck Center of St. Louis (hereinafter call the "Company")
1 New vehicle(s), Make Mack Model Granite Year 2020 as described in the attached
Specifications Covering Order for New Chassis VIN No. 0. Said vehicle(s)
are to be delivered on or about Jan-00 according to the following terms and conditions:

This order is Subject to the Price in Effect at the Time of Delivery. See Third to last Paragraph on Reverse Side Hereof:

Price per Vehicle	\$	<u>100,340.00</u>
Misc. Charges Des.	\$	<u>0.00</u>
Federal Retail Excise Tax	\$	<u>-250.00</u>
Net Trade Allowance	(\$	<u>0.00</u>)
State Sales Tax	\$	<u>20.00</u>
City/County Sales	\$	<u>0.00</u>
Lic. Fee Type _____ Wt. _____	\$	<u>0.00</u>
Additional Extended Warranty		<u>4,840.00</u>
Total Price	\$	<u>104,950.00</u>
Total Price for <u>1</u> Vehicles	\$	<u>104,950.00</u>
Less Total Prepayment	\$	<u>0.00</u>
Balance of Purchase Price	\$	<u>104,950.00</u>

Trade Calculations	
Trade Value	\$ <u>0.00</u>
Trade Payoff	\$ <u>0.00</u>
Net Trade Allowance	\$ <u>0.00</u>
Description of Trade	
Year: <u>0</u> Make <u>0</u> Model <u>0</u>	
Vin#: <u>0</u>	
Mileage: <u>0</u>	

\$100,070.00

THE COMPANY MAKES NO WARRANTIES AS TO SAID VEHICLE(S), EXPRESS, IMPLIED OR IMPLIED BY LAW, EXCEPT THE MANUFACTURER'S STANDARD VEHICLE WARRANTY, A COPY OF WHICH HAS BEEN DELIVERED TO THE PURCHASER, WHICH IS NOT INCORPORATED HEREIN BY REFERENCE. THE COMPANY SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE COMPANY SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF INCOME. THE TERMS AND CONDITIONS ON THE REERSE SIDE HEREOF ARE A PART OF THIS AGREEMENT. THE PURCHASER ACKNOWLEDGES HAVING READ THIS AGREEMENT, INCLUDING SUCH TERMS AND CONDITIONS. ALL VEHICLES ARE SUBJECT TO PRIOR SALES. NO VEHICLES ARE HELD MORE THAN 5 DAYS WAITING FOR CREDIT APPROVAL.

Date _____ 20 _____

(SIGNATURE OF OFFICER, PARTNER OR OWNER WITH TITLE)

(SALES REPRESENTATIVE)

(APPROVED BY)

TERMS AND CONDITIONS

This purchase order is tendered by the Purchaser for acceptance by Vanguard Truck Center of St. Louis (hereinafter called the "Company"). It is understood that it will not be binding upon the Company unless accepted and signed by an authorized executive of the Company.

If the terms of payment herein provided are other than cash, the Purchaser agrees to execute and deliver to the Company, prior to the delivery of said vehicle(s), a security agreement, in the form customarily required by the Company, covering said vehicle(s) in order to secure the payment of the indebtedness due hereunder. The Purchaser further agrees that this purchase order shall be subject to all the terms and conditions of said security agreement, which shall supersede this purchase order to the extent inconsistent herewith; provided that Purchaser's warranty as to any used motor vehicle or equipment traded in by the Purchaser and taken by the Company as part of payment hereunder (hereinafter such used motor vehicle or equipment is called the "used equipment") shall survive the execution of the security agreement.

The Company shall not be held responsible for any loss, damage, detention, delay or failure to deliver resulting from any cause which is unavoidable or beyond its reasonable control, including, but not limited to fire, flood, natural disaster, strike or labor disturbance, accident, vandalism, riot or insurrection, war, any order, decree, law or regulation of any court, government or governmental agency, shortage of materials, demand in excess of available supply, failure or interruption of normal transportation or power facilities; NOR IN ANY EVENT SHALL THE COMPANY BE LIABLE FOR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO LOSS OF INCOME. The receipt of said vehicles(s) by the Purchaser upon delivery shall constitute a war waiver of all claims for loss or damage due to delay.

The Purchaser warrants that the used equipment, if any, is free from all liens and/or encumbrances of any nature whatsoever, and that the Purchaser has good and marketable title to the used equipment at the time of delivery thereof to the Company. The used equipment is to be delivered to the Company in the same condition and appearance in which it was when first inspected by the Company or its agent. The Company, upon delivery of such used equipment, shall have the right once again to inspect such used equipment and the Company shall be the sole judge as to its condition, with the right to accept or reject the used equipment at its option. If the used equipment to be delivered to the Company is not in a condition and appearance as good as it was when first inspected by the Company, the Company shall have the right to revalue the amount of allowance offered for such equipment and the total cash purchase price shall be increased accordingly.

The Purchaser agrees that the amount of the allowance made upon the used equipment, if any, is to be applied by the Company as part payment on the purchase price of said vehicle(s).

In the event that the within purchase order is accepted by the Company and the Purchaser fails to accept delivery and perform this contract pursuant to its terms, the Purchaser authorizes the Company to retain the amount paid to the Company in cash and/or the used equipment on account of the purchase price of said vehicle(s) as liquidated damages in addition to such rights as the Company may have under law.

In the event that the within purchase order is cancelled by mutual written agreement of the Company and the Purchaser or if the Company is unable to make delivery of said vehicle(s), the Company will return and the Purchaser will accept the cash and the used equipment (or if the used equipment shall have been sold, the net amount received by the Company from the sale thereof) in full discharge of any obligations of the Company to the Purchaser hereunder.

The Purchaser agrees that all previous communications between the Purchaser and the Company, either verbal or written, with reference to the subject matter of this purchase order, are hereby abrogated. The Purchaser further agrees that no modification of this Agreement shall be binding upon the Company unless such modifications shall be in writing and agreed to and accepted in writing by a Sales Manager or authorized Home Office executive of the Company.

A security interest in said vehicle(s) shall remain in the Company until the payment in full of the purchase price or, if the terms of payment herein provided are other than cash, until the execution and delivery of a security agreement, as hereinabove provided, at which time the terms of said security agreement shall control with respect to the title and ownership of said vehicle(s).

In the event of Purchaser's failure to make payment of the purchase price when due, the Company may take immediate possession of said vehicle(s), without demand or further notice. For this purpose and in furtherance thereof, the Purchaser shall, if the Company so requests, make said vehicle(s) available to the Company at a reasonably convenient place designated by it, and the Company shall have the right, and the Purchaser does hereby authorize and empower the Company, its agents, servants or employees, to enter upon the premises wherever said vehicle(s) may be and remove the same; and the Purchaser hereby expressly waives any action or right of action of any kind whatsoever against the Company, its agents, servants or employees because of the removal, repossession or retention of said vehicle(s) or otherwise.

If the cost to the Company of insurance to be furnished by the Company hereunder is increased at any time prior to the delivery of said vehicle(s), the Purchaser agrees to pay for the insurance herein provided for at such increased rate.

It is agreed that if the cost of labor, materials, body, accessories or other equipment or component parts increases beyond the basis upon which the price set forth herein was established, then the Company, at any time before delivery, may give the Purchaser written notice of an increase in price, and such increased price shall be the contract price, unless Purchaser within ten days thereafter shall give Company written notice of cancellation. Any such increase in the contract price, pursuant to this provision, however, shall not prevent additional increases, if necessary, under the circumstances set forth herein at any time prior to delivery.

ALL TAXES NOW OR HEREAFTER IMPOSED UPON THE MANUFACTURER OR SALE OF SAID VEHICLE(S) SHALL BE PAID BY THE PURCHASER.

This instrument contains the entire agreement between the parties, and there are no understandings or representations not contained herein.

Customer Initials _____



22956 Hwy 61
 PO Box 295
 Morley, MO 63767
 Phone: 573-262-3545
 Fax: 573-262-3369

Quote

Quote #	Date
165003	02/13/19

Customer			
VANGUARD TRUCK CENTER 2350 CHOUTEAU AVE			
ST LOUIS	MO	63103	

Ship To			
CITY OF BALLWIN 200 PARK DR			
BALLWIN	MO	63011	

Customer PO	Terms	Sales Rep	Lead Time	Ship Via	FOB	VIN
	NET 30		02/07/19			

Item	Description	Ordered	UOM	Price Per	Total Price
MSRPSADISCOUNT	BASE SINGLE AXLE CONTRACT PACKAGE INCLUDES A 10' STAINLESS STEEL DUMP BODY AND CERTIFIED POWER HYDRAULICS PRICED AT \$57,028. THROUGH COOPERATIVE PURCHASING, THE ITEMS BELOW ARE SPECIFIC TO THE NEEDS OF THE CITY OF BALLWIN AND INCLUDES A 25% DISCOUNT PER MoDOT CONTRACT IFB605CO18000696. ALL ITEMS ARE PRICED AS LIST AND A 25% DISCOUNT HAS BEEN APPLIED TO THE TOTAL.	1.00	EA	0.00	0.00
MSRP1000	PLOWS, PLOW FRAMES AND HITCHES	1.00	EA	0.00	0.00
MSRP1120	3" X 10" DA lift cylinder	1.00	EA	316.00	316.00
MSRP1160	Universal quick hitch - low pro with cheekplates and lift arm	1.00	EA	2,545.00	2,545.00
MSRP1190	UQH swivel	1.00	EA	1,242.00	1,242.00
MSRP1240	MW36R10 Plow assembly with push frame, A-frame, two-chain lift, deflector and plow markers (no swivel or cutting edge)	1.00	EA	9,009.00	9,009.00
MSRP1370	5/8" x 8" x 120" 12 hole top punch C1085 steel cutting edge with hardware	1.00	EA	379.00	379.00
MSRP2000	DUMP BODY AND OPTIONS (MoDOT ITEM PRICES PER CONTRACT IFB605CO18000696 ARE RELECTED IN DISCOUNT BELOW) - WALK RAIL AND HAND RAIL FOR CORTEN BODY (PER MoDOT CONTRACT) \$515	1.00	EA	0.00	0.00
MO18SAOPT16	Walk rail and hand rail for Corten body	1.00	EA	687.00	687.00
MSRP0000	12' Corten steel municipal dump body with 3/16"	1.00	EA	21,378.00	21,378.00



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Item	Description	Ordered	UOM	Price Per	Total Price
	Corten sides and front, Hardox floor, 18" Corten cab shield with integrated load cover roller, 1/4" Corten long sills (one (1) piece trapezoid style), driver's side hydraulic lines to rear for spreader hookup, offset tailgate with sideboard pockets and a flush-mount tailgate. Also includes doghouse, cab shield corners and installation				
MSRP2270	Mailhot CS 120 Series hoist package for Viking platform or tandem axle dump body for installation on clean frame	1.00	EA	5,762.00	5,762.00
MSRP2310	Aero 550 load cover with asphalt tarp for 10' body	1.00	EA	2,500.00	2,500.00
MSRP2430	Additional pullout ladder	1.00	EA	580.00	580.00
MSRP2470	Paint body to match cab (excluding black or yellow) - Dupont #DS022 Grey	1.00	EA	1,935.00	1,935.00
MSRP3000	HYDRAULICS AND HYDRAULIC OPTIONS	1.00	EA	0.00	0.00
MSRP3010	Certified Power hydraulic system for the City of Ballwin with XDS controller, electronic controls and a stainless steel valve enclosure	1.00	EA	25,660.00	25,660.00
MSRP3180	MoDOT hydraulic install kit (includes hoses, fittings and hardware)	1.00	EA	2,516.00	2,516.00
MSRP4000	SPREADER AND SPREADER OPTIONS (MoDOT ITEM PRICES PER CONTRACT 3-160824RW ARE RELECTED IN DISCOUNT BELOW)	1.00	EA	0.00	0.00
	- 10' VIKING-CIVES CONVEYOR SPREADER (PER MoDOT CONTRACT) \$15,042				
	- 10' GALVANIZED STEEL SPREADER STAND (PER MoDOT CONTRACT) \$3,052				
MO18SCSPR122	10' Viking-Cives VCM-C-10-82-50 201SS drag chain spreader	1.00	EA	20,056.00	20,056.00
MO18SCOPT108	10' galvanized steel spreader stand	1.00	EA	4,069.00	4,069.00



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Item	Description	Ordered	UOM	Price Per	Total Price
MSRP5000	LIGHTS AND LIGHTING OPTIONS	1.00	EA	0.00	0.00
MSRP5135	Whelen VCSYS1 municipal lighting package	1.00	EA	3,964.00	3,964.00
MSRP5200	ABL 3800 Series LED plow light	1.00	EA	1,167.00	1,167.00
MSRP6000	TOWING AND TOWING ACCESSORIES	1.00	EA	0.00	0.00
MSRP6110	VCM supplied 7-wire pigtail	1.00	EA	288.00	288.00
MSRP6150	PH30 pintle hook with D-rings and plate	1.00	EA	1,042.00	1,042.00
MSRP6225	Pintle hitch install kit (includes fittings and electrical hardware)	1.00	EA	166.00	166.00
MSRP9000	MISCELLANEOUS (MoDOT ITEM PRICES PER CONTRACT IFB605CO18000696 ARE RELECTED IN DISCOUNT BELOW)	1.00	EA	0.00	0.00
	- AUTOMATIC TIRE CHAINS (PER MoDOT CONTRACT) \$2,100				
MO18SAOPT24	Automatic tire chains	1.00	EA	2,800.00	2,800.00
MSRP0000	20,000 pusher axle with tires and wheels	1.00	EA	9,500.00	9,500.00
MSRP9100	Single axle install kit (includes miscellaneous electrical components and hardware)	1.00	EA	447.00	447.00
MSRP9140	Mud flap kit (includes front anti-sails and rear removable pin brackets)	1.00	EA	393.00	393.00
MSRP9150	18X18X24 steel tool box with stainless handle	1.00	EA	668.00	668.00
MSRP9220	7" LCD quad view backup camera system (includes one (1) camera and one (1) enclosure)	1.00	EA	1,502.00	1,502.00
MSRP9230	Additional backup camera (includes one (1) enclosure)	1.00	EA	473.00	473.00
MSRP9270	Add Gatorhyde lining to inside of cab (single)	1.00	EA	1,067.00	1,067.00



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Item	Description	Ordered	UOM	Price Per	Total Price
MSRP0000	Armour seal truck	1.00	EA	300.00	300.00
MSRP0000	Power distribution box	1.00	EA	866.00	866.00

Prepared By: Chris

Memo:

DISCOUNT APPLIED HERE IS 25% OFF MSRP
 PER MoDOT CONTRACT IFB605CO18000696 -->

Sub-Total	123,277.00
Shipping	0.000
Discount	30,819.00
Taxes	0.00
Total	92,458.00

Customer must fill out the information below before the order can be processed.

Accepted by: _____ Date: _____ P.O.#: _____

*Quoted price does not include any applicable taxes.

*Terms are Due Upon Receipt unless prior credit

*Terms for established accounts, NET 30 days

*Please note if chassis is furnished, it is as a convenience and terms are Net Due on Receipt of Chassis