INTERNATIONAL® February 15, 2022

Prepared For:

ROSENBAUER - # 14589-01 CV515 4X4 CREW CAB

60" CA CHASSIS Paul Hentges 100 3rd Street Lyons, SD 57041-(605)543 - 5591

Reference ID: 14589-01

Presented By:
NORTH CENTRAL INTERNATIONAL
Robin Kunz
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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 2022 CV515 SFA (CV515)

AXLE CONFIG: 4X4
APPLICATION: Rescue

MISSION: Requested GVWR: 22500. Calc. GVWR: 22500. Calc. GCWR: 37000

Calc. Start / Grade Ability: 36.31% / 2.44% @ 55 MPH

DIMENSION: Wheelbase: 175.00, CA: 59.80, Axle to Frame: 49.00

ENGINE, DIESEL: {International 6.6} EPA 2021, 350HP @ 2700 RPM, 700 lb-ft Torque @ 1600 RPM, 2900 RPM

Governed Speed, 350 Peak HP (Max)

TRANSMISSION, AUTOMATIC: {Allison 2750 EVS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with

PTO Provision, Less Retarder, Includes Park Pawl, with 23,500-lb GVW and 37,500-lb GCW Max,

On/Off Highway

AXLE, FRONT DRIVING: {Dana Spicer 60-256} Single Reduction, 7,500-lb Capacity, with Hub Piloted Wheel Mounting **AXLE, REAR, SINGLE:** {Dana Spicer S16-130} Single Reduction, 15,500-lb Capacity, 190 Wheel Ends Gear Ratio: 4.30

CAB: Conventional 6-Man Crew Cab

TIRE, FRONT: (3) 225/70R19.5 Load Range G HYBRID HD3 (CONTINENTAL), 647 rev/mile, 87 MPH, Drive TIRE, REAR: (4) 225/70R19.5 Load Range G HYBRID HD3 (CONTINENTAL), 647 rev/mile, 87 MPH, Drive

SUSPENSION, REAR, SINGLE: 15,500-lb Capacity, Vari-Rate Springs

PAINT: Cab schematic 100CX

Location 1: 2303, Red (Std)

Chassis schematic N/A

Vehicle Specifications 2022 CV515 SFA (CV515)

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<u>Code</u> CV51500	<u>Description</u> Base Chassis, Model CV515 SFA with 175.00 Wheelbase, 59.80 CA, and 49.00 Axle to Frame.
1570	TOW HOOK, FRONT (2) Frame Mounted
1AMM	SKID PLATE Steel, Frame Mounted, Protects the Transfer Case from the Ground
1ANB	AXLE CONFIGURATION (Navistar) 4x4
	Notes : Pricing may change if axle configuration is changed.
1CGH	FRAME RAILS High Strength Low Alloy Steel (50,000 PSI Yield), Straight Top Flange with Contoured Bottom, Height Transitions from 7.375" (187.325mm) to 9.125" (231.775mm) to 7.625" (193.675mm); Width: 3.079" (78.21mm); Thickness: 0.3125" (7.94mm); 383.3" (9735.8mm) Max OAL
1LEG	LICENSE PLATE HOLDER Includes Upper & Lower Mounting Plate Hardware, Mounted in Existing Holes in Front Bumper
1LNZ	BUMPER, FRONT Contoured, Steel, Chrome Plated, for CV and RE Bus
1WAC	BUMPER EXTENSION, FRONT 4.0"
1WEB	WHEELBASE RANGE 128" (325cm) Through and Including 183" (465cm)
2EWA	AXLE, FRONT DRIVING {Dana Spicer 60-256} Single Reduction, 7,500-lb Capacity, with Hub Piloted Wheel Mounting
2WLC	AXLE, FRONT DRIVING, LUBE {EmGard FE-75W-90} Synthetic Oil; 1 thru 29.99 Pints
3AJN	SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 7,500-lb Capacity, with Shock Absorbers
4240	BRAKE SYSTEM, HYDRAULIC {Bosch} Split System, with Four Channel ABS, Traction Control, Electronic Stability Control, Hydromax Brake Booster with High Speed Master Cylinder and Trailer Sway Control
4EVD	DUST SHIELDS, FRONT BRAKE for Hydraulic Brakes
4EVE	DUST SHIELDS, REAR BRAKE for Hydraulic Brakes
4GBJ	BRAKE, PARKING {Bosch} DSSA Type, 12" x 3"; for Hydraulic Brake Chassis; Foot Operated in Cab; Differential Mounted
4XCU	BRAKES, FRONT {Meritor Quadraulic} Hydraulic Disc Type, with Four 64mm Diameter Pistons, 8,000-lb Capacity
4XCV	BRAKES, REAR (Meritor Quadraulic) Hydraulic Disc Type, with Four 64mm Diameter Pistons, 15,500-lb Capacity per Axle
5708	STEERING COLUMN Tilting
5CBG	STEERING WHEEL 4-Spoke; 15" Dia., Black
5PSS	STEERING GEAR (Bosch S2 8014 Plus) Power
6901	PROPSHAFT GUARD
6DHD	DRIVELINE SYSTEM {Dana Spicer} SPL100 Main Driveline, Direct Mount Transfer Case to Transmission, SPL70 Driveline to Front Axle, for 4x4
7BLL	EXHAUST SYSTEM Horizontal, Frame Mounted Right Side, Under Rail, for Single Exhaust
7SDS	ENGINE EXHAUST BRAKE for International 6.6 Engine
7XAA	MANUAL REGEN Capability
8002	ELECTRICAL SYSTEM 12-Volt for CV Model

<u>Includes</u>

10506

10761

10XAX

12GAG

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Proposal: 14589-01

Code Description : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : PARKING LIGHT PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : TURN SIGNALS, FRONT Includes Reflectors and Solid State Flashers; Flush Mounted : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature, Integral with Turn Signal Lever 8AAB DEFROSTER, REAR WINDOW Electric 8GJB ALTERNATOR (Denso SC6) Brush Type, 12 Volt, 220 Amp Capacity 8HBW TRAILER BRAKE CONTROL Integrated BODY BUILDER WIRING Rear of Frame: Includes One Sealed Connector for Separate Ground/Backup/ Left 8HXU and Right Hand Turn, Left and Right Hand Tail/Stop/ Accessory Power and Combined for Left and Right Hand Stop/Turn **8MWA** BATTERY SYSTEM {VARTA} Maintenance-Free, (2) 12-Volt 1300CCA Total, Top Threaded Stud 8NAA TAIL LIGHT WIRING MODIFIED Includes: Wiring for Standard Lt & Rt Tail Lights; Separate 8.0' of Extra Cable Wiring for Lt & Rt Body Mounted Tail Lights 8RNN RADIO AM/FM/USB Input/Auxiliary Input/SD Card Slot, with 4.2" Color Touch Panel Display 8RNU SPEAKERS (6) 8RNY CAMERA SYSTEM, REAR VIEW Includes Camera, Mounting, Wiring and Interface to the Monitor, for the Back-up Camera System 8TRA TRAILER CONNECTION SOCKET Mounted at Rear of Frame, Wired for Turn Signals Combined with Stop. Compatible with Trailers with Combined Stop, Tail, Turn Lamps STOP, TURN, TAIL & B/U LIGHTS Multi-Function, Sealed, Incandescent Stop, Turn and Tail Lights, Backup 8TUL Lights with Rear Reflex Reflector, Includes License Plate Light 8VAY HORN, ELECTRIC Disc Style 8VVB BATTERY BOX Steel, with Plastic Cover, 2 Battery Capacity, Parallel to Rail, 28" Wide, Mounted Left Side **Under Cab** HEADLIGHTS Halogen, Composite Aero Design, Chrome Trim Bezel, with Daytime Running Lights 8XJM 8XJP SWITCH, AUXILIARY 1 to 4 Latching Switches with 30-Amp Fuses 8XJV CLEARANCE/MARKER LIGHTS (5) Amber LED Lights, Flush Mounted on Cab STARTING MOTOR 12 Volt 8XJW LOGOS EXTERIOR Model Badges 9AAB 9HCG GRILLE Chrome, with Chrome Headlight Bezels 9WAC **BUG SCREEN Mounted Behind Grille** 9WAY FRONT END Tilting, Fiberglass, with Three Piece Construction 9WBN **FENDER EXTENSIONS Painted** PAINT SCHEMATIC, PT-1 Single Color, Design 100 10060

TOOL KIT Rim Wrench and Handle Only

PAINT TYPE Base Coat/Clear Coat, 1-2 Tone

RPM Governed Speed, 350 Peak HP (Max)

GVWR WEIGHT CLASSIFICATION Class 6 (19,501-26,000 lbs)

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ENGINE, DIESEL {International 6.6} EPA 2021, 350HP @ 2700 RPM, 700 lb-ft Torque @ 1600 RPM, 2900

Vehicle Specifications 2022 CV515 SFA (CV515)

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<u>Code</u>	Description Includes : GLOW PLUG Automatic with Indicator Light : OIL FILTER, ENGINE Spin-On Type
12TTM	FAN DRIVE Viscous Type, Screw On, Rear Tether, Electronically Controlled
12VGC	AIR CLEANER Single Element, with Water Separator
12VJD	EMISSION, CALENDAR YEAR {International 6.6} EPA, OBD and GHG Certified for Calendar Year 2022
12WGG	THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic Controlled, On/Off Switch Mounted on Dash, with Steering Wheel Button Control
12WUU	GOVERNOR Electronic Road Speed Type; with 75 MPH Default
12WZD	CARB IDLE COMPLIANCE Engine Shutdown System Exempt Vehicles, Complies with California Clean Air Regulations
12XBL	BLOCK HEATER, ENGINE 120V/800W
12XCU	CARB EMISSION WARR COMPLIANCE for International 6.6 Engines
12XZD	RADIATOR Aluminum, 3-Row, Down Flow, Front to Back System, 730 Sqln Louvered, with 578 Sqln Charge Air Cooler, Includes In-Tank Oil Cooler
13AXT	TRANSMISSION, AUTOMATIC {Allison 2750 EVS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Park Pawl, with 23,500-lb GVW and 37,500-lb GCW Max, On/Off Highway
13TLP	TRANSFER CASE {Meritor MTC-3203} 2-Speed, Gear Drive, 3,000 lb-ft Torque Rating, Less PTO Provision, Electric Shift Control
	Notes : Transfer Case Includes 40W Synthetic Lube
13WVV	NEUTRAL AT STOP Allison Transmission Shifts to Neutral When Service Brake is Depressed and Vehicle is at Stop; Remains in Neutral Until Service Brake is Released
13WYY	SHIFT CONTROL PARAMETERS (Allison) 1000 or 2000 Series Transmissions, Performance Programming
13XAK	PTO LOCATION Customer Intends to Install PTO at Right Side of Transmission
14897	DIFFERENTIAL, LOCKING (Dana Spicer Trac-Lok) Torque Proportioning Limited Slip
14AJE	AXLE, REAR, SINGLE {Dana Spicer S16-130} Single Reduction, 15,500-lb Capacity, 190 Wheel Ends . Gear Ratio: 4.30
14SAE	SUSPENSION, REAR, SINGLE 15,500-lb Capacity, Vari-Rate Springs
14WAP	SHOCK ABSORBERS, REAR (2)
14WMN	AXLE, REAR, LUBE {EmGard FE-75W-90} Synthetic Oil; 1 thru 29.99 Pints
15SZN	FUEL TANK Top Draw, Plastic, Rectangular, 17" Tank Depth, 40 US Gal (151L), Includes Auxiliary Draw Port and Fuel Filler Assembly, Mounted Between Frame Rails and Behind Rear Axle
15WDZ	DEF TANK 6.75 US Gal (26L) Capacity, Frame Mounted Outside Right Rail, Under Cab
16196	CAB Conventional 6-Man Crew Cab
	Includes : CAB DOOR LOCKS Power Door Locks All Doors - DOME LIGHT, CAB with OFF (DOOR ON Settings) Legated in Overhead Capacita

: DOME LIGHT, CAB with OFF/DOOR/ON Settings; Located in Overhead Console

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- : READING LIGHT, CAB Located in Overhead Console
- : STEP (4) One Step Per Door
- : STORAGE POCKET, DOOR (2) Full Length, Driver and Passenger Door

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<u>Code</u> <u>Description</u>

16975 HEATER HOSES Silicone

16ACB MIRROR, INSIDE REAR VIEW with Manual Tilt

16BAN DOOR HANDLE, EXTERIOR Bright Finish

16BBA GLASS, ALL WINDOWS Solar Absorbing, Tint

16CEM COLOR, INTERIOR Dark Ash

16HCT GAUGE CLUSTER English Speedometer, Includes English Odometer; Includes 3.5" Monochromatic Display

with Personalization, Warning Messages and Vehicle Information

16KVS SEAT, DRIVER High Back with Integral Headrest, with Recline, Vinyl, Fixed Lumbar

16KZC SEAT, REAR BENCH, Vinyl

16LVU SEAT, PASSENGER High Back with Integral Headrest, Vinyl, with Recline, without Center Section. Center

Area of Floor Between Seats will be Untrimmed

16SPT MIRRORS (2) Manual Folding and Extending, Power Adjust, Heated, Turn Signal Indicator Located in Mirror,

Bright Heads and Arms, for 96" Load Width

16VCA SEAT BELT All Red; 4 to 6

16VKD CAB INTERIOR TRIM Classic, for Crew Cab

<u>Includes</u>

: SUN VISOR (2) Vinyl

16WHJ HOSE CLAMPS, HEATER HOSE (Breeze) Belleville Washer Type

16XCP AIR BAG, FRONT, DRIVER SIDE

16XCR AIR BAG, FRONT, PASSENGER SIDE

16XCT WINDOW, POWER (4) in Left and Right Doors, Front and Rear

16XDE AIR BAG, SIDE, DRIVER Seat Mounted, Outboard Side-Impact Airbag

16XDG AIR BAG, SIDE, PASSENGER Seat Mounted, Outboard Side-Impact Airbag

16XDH AIR BAG, SIDE CURTAIN Roof Mounted, for Front and Rear Outboard Seating Positions for Driver and

Passenger Sides

16XZA AIR CONDITIONER with Heater, Single Zone

26DTX WHEEL, SPARE, DISC {Accuride 50180} 19.5x6.75 Rims, Powder Coat Steel, 4-Hand Hole, 8-Stud, 275mm

BC, Hub-Piloted

27DVT WHEELS, FRONT {Alcoa 76543} DISC; 19.5x6.75 Rims, Mirror Polish Aluminum, 8-Stud, 275mm BC, Hub-

Piloted, Flanged Nut, with Steel Hubs

28DVT WHEELS, REAR {Alcoa 76543} DUAL DISC; 19.5" Mirror Polish Aluminum Outer Wheel and Steel Inner Wheel,

8-Stud (275MM BC) Hub Piloted, Flanged Nut, Metric Mount, 6.75 Rims; with Steel Hubs

29007 TIRE, SPARE Equal to Model Standard

29PBY COATING IDENTITY, REAR WHEELS (Alcoa Dura-Bright XBR/EVO) Disc Rear Wheels, Aluminum, with

Vendor Applied Treatment, Not for Super Single/Wide Base

29PBZ COATING IDENTITY, FRONT WHEELS {Alcoa Dura-Bright XBR/EVO} Disc Front Wheels, Aluminum, with

Vendor Applied Treatment, Not for Wide Base

29SAE WHEEL SEALS, FRONT (Chicago Rawhide Nitrile) for Oil Lubricated Wheel Bearings

7779445428 (3) TIRE, FRONT 225/70R19.5 Load Range G HYBRID HD3 (CONTINENTAL), 647 rev/mile, 87 MPH, Drive

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Vehicle Specifications 2022 CV515 SFA (CV515) February 15, 2022

<u>Code</u> <u>Description</u>

7779445428 (4) TIRE, REAR 225/70R19.5 Load Range G HYBRID HD3 (CONTINENTAL), 647 rev/mile, 87 MPH, Drive

Services Section:

Description

40131 WARRANTY Standard for CV515, Effective with Vehicles Built December 3, 2018 or Later, CTS-3000A

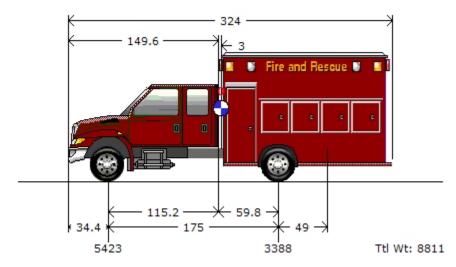
Body/Allied Equipment

Code

Goods Purchased

<u>Code</u> <u>Description</u>

Weight Summary 2022 CV515 SFA (CV515)



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

Truck		Body/Trailer			Chassis/Empty Weights			
Bumper to Axle	(BA)	34.4	Body Length		(BL)	171	Tractor Front Axle:	5,423
Wheelbase	(WB) ²	175.00					Tractor Rear Axle:	3,387
Axle to Frame	(AF)	49.00						
Axle to Back Cab	(ABC)	115.2						
Cab to Axle	(CA)	59.8						
Usable CA		59.8						
CA Reduction Adjustment		0.00						
Fuel-Diesel(Gals)		0						
DEF(Gals)		0						

		Payloads		
Before the Cab	Cab	Chassis	Body	After the Body
# Weight CG	# Weight CG	# Weight CG	# Weight CG	# Weight CG

Loads		Weight Distribution			
Payload Weight:	0	Total Front Axle:	5,423		
Driver:	0	Total Rear Axle:	3,388		
Fuel-Diesel(Lbs):	0	Total Weight:	8,811		
DEF(Lbs):	0	·			

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

Weight Distribution

All weights are represented in lbs.

	Truc	ck	
	Front	Rear	Total
Chassis Weight			
Chassis Weight:	5,423	3,387	8,810
Fuel:	0	0	0
DEF:	0	0	0
Empty Body:	0	1	1
(Curb Weight):	5,423	3,388	8,811
<u>Loads</u>			
Payloads:	0	0	0
Driver:	0	0	0
Axle Totals (Gross Weight):	5,423	3,388	8,811

Weight Ratings

	Tru	ck
	Front	Rear
Axle(axle capacity) Tire(tire capacity) Suspension(suspension capacity) Spring:	7,940	15,500 15,880 15,500

Fed Bridge Law (axle spread): 20,000 20,000

 Wheel Combination
 Load
 Limit

 1 - 2
 8,811
 44,000

Federal Total Vehicle Weight Limit: 80,000

Maximum Gross Vehicle Weight Rating (GVWR) 22,500 - Gross Vehicle Weight(GVW) 8,811 = 13,689 Reserves

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Weight Summary

^{*} Distributed weights are within capacity limits

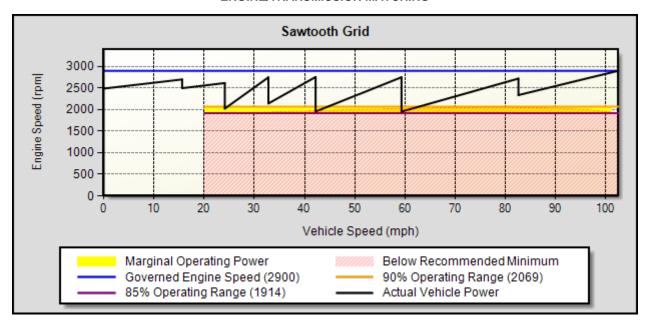
Turning Radius Summary 2022 CV515 SFA (CV515)

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Error creating report. Method not found: 'Void Navistar.ST.Web.UI.Controls.UILSTPageBarData..ctor(System.String, System.String, System.String

Electronic Parameters Data is Not Available.

ENGINE/TRANSMISSION MATCHING



Sawtooth Details

Gear	Trans	Multi	Upshift Po	ower Avail	Govern Power Avail		Peal	Warn Msg		
	Ratio	Speed	Veh Spd	Eng Spd	Veh Spd	Eng Spd	Gear Step	85% Range	90% Range	
			(MPH)	(RPM)	(MPH)	(RPM)	(%)	(%)	(%)	
1C-1	3.10	1.00	0.0	2488	15.6	2699	N/A	52	40	
2C-1	1.81	1.00	15.6	2497	24.1	2616	N/A	52	40	
2L-1	1.81	1.00	24.1	2024	32.8	2749	N/A	52	40	
3L-1	1.41	1.00	32.8	2142	42.2	2757	N/A	52	40	
4L-1	1.00	1.00	42.2	1955	59.3	2750	N/A	52	40	
5L-1	0.71	1.00	59.3	1953	82.6	2719	N/A	52	40	
6L-1	0.61	1.00	82.6	2336	102.5	2900	N/A	52	40	

^{@ -} WHEELSLIP CAN OCCUR AT THE GRADE SHOWN. THE VEHICLE IS CAPABLE OF INCREASED GRADEABILITY IF MORE WEIGHT IS PLACED ON THE DRIVE AXLES.

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STEADY STATE PERFORMANCE

Performance Results	Gear	Veh Spd (mph)	Eng Spd (rpm)	Fuel Econ (mpg)	Grade (%)	Notes	
LEVEL ROAD MAXIMUM SPEED	5L-1	85.2	2804	4.60	0.00		
HI GEAR SPEED @ RATED RPM							
55.0 MPH STEADY-STATE	6L-1	55.0	1556	9.23	2.44		
TYPICAL OPERATING SPEED	6L-1	75.0	2121	6.26	0.80	 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: 0.00 GALS/HR @ 600.0 RPM TORQUE CONVERTER: TC-221 STALL RATIO: 1.73

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

Key Fuel Economy Information	City	Suburban	Highway	Notes
MILES PER GALLON	9.01	10.10	8.81	
AVERAGE MPH	19.3	40.2	54.6	
MISSION MINUTES	29.36	51.55	173.24	

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-1	3.10	1.00	0.0	2488	0.00	48.22	@ STALL
			8.9	2493	203.06	39.92	70% EFF
			11.2	2525	234.39	36.31	80% EFF
			15.6	2699	270.56	29.14	
2C-1	1.81	1.00	15.6	2497	205.77	21.56	
			24.1	2616	263.44	17.41	
2L-1	1.81	1.00	24.1	2024	237.42	15.53	
			32.8	2749	295.07	13.79	
3L-1	1.41	1.00	32.8	2142	247.92	11.33	
			42.2	2757	291.00	9.78	
4L-1	1.00	1.00	42.2	1955	224.06	7.10	
			59.3	2750	284.47	5.20	
5L-1	0.71	1.00	59.3	1953	211.24	3.14	
			80.8	2660	270.86	1.00	
			82.6	2719	268.06	0.65	
			83.2	2740	265.41	0.50	
			85.2	2806	256.28	0.00	LEVEL ROAD
6L-1	0.61	1.00	73.0	2065	213.67	1.00	
			78.0	2206	225.60	0.50	
			82.6	2336	236.92	0.02	
			82.8	2343	237.56	0.00	LEVEL ROAD
			102.5	2900	219.85	-3.38	RATED RPM

STARTING / TOP GEAR PERFORMANCE

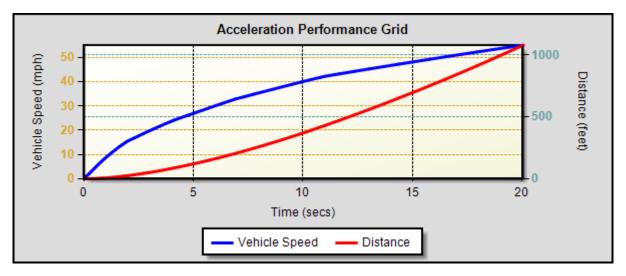
Gear	Trans Ratio	Multi Speed	Veh Spd (mph)	Eng Spd (rpm)	WhI Pwr (hp)	Grade (%)	Warn Msg	Notes
1C-1	3.10	1.00	0.0		0.00	48.22	@	STALL
			11.2		234.39	36.31		80% EFF - Calculated Start Ability
1C-2	3.10	3.00	0.0		0.00	48.22	@	STALL
			3.7		98.80	48.22	@	80% EFF - Calculated Start Ability
6L-1	0.61	1.00	82.8		237.56	0.00		LEVEL ROAD
			102.5		219.85	-3.38		RATED RPM
6L-2	0.61	3.00	37.9		35.57	0.00		LEVEL ROAD
			34.2		244.92	10.59		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 20.07 (SECS)

Acceleration Performance Details

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes
1C	0.11	0.1	1.0	
	0.23	0.3	2.0	
	0.34	0.7	3.0	
	0.45	1.3	4.0	
	0.56	2.0	5.0	
	0.67	3.0	6.0	
	0.79	4.1	7.0	
	0.91	5.4	8.0	
	1.04	7.0	9.0	
	1.17	8.8	10.0	
	1.31	10.9	11.0	
	1.45	13.3	12.0	
	1.59	16.0	13.0	
	1.75	19.0	14.0	
	1.91	22.5	15.0	
2C	2.02	25.0	15.6	
	2.26	30.5	16.6	
	2.49	36.4	17.6	
	2.72	42.6	18.6	
	2.96	49.3	19.6	
	3.21	56.5	20.6	
	3.46	64.3	21.6	
	3.71	72.6	22.6	
	3.98	81.6	23.6	
2L	4.11	86.2	24.1	
	4.42	97.6	25.1	
	4.74	109.5	26.1	
	5.06	121.9	27.1	
	5.38	134.9	28.1	
	5.70	148.4	29.1	
	6.02	162.4	30.1	
	6.35	177.0	31.1	
			- · · · ·	

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes
	6.68	192.4	32.1	
3L	6.91	203.1	32.8	
	7.33	223.6	33.8	
	7.75	245.0	34.8	
	8.18	267.0	35.8	
	8.61	289.8	36.8	
	9.04	313.4	37.8	
	9.47	337.8	38.8	
	9.91	363.0	39.8	
	10.36	389.4	40.8	
	10.82	417.4	41.8	
4L	11.01	429.3	42.2	
	11.67	470.6	43.2	
	12.34	513.3	44.2	
	13.01	557.4	45.2	
	13.70	603.0	46.2	
	14.38	650.2	47.2	
	15.08	698.9	48.2	
	15.79	749.1	49.2	
	16.50	801.0	50.2	
	17.22	854.5	51.2	
	17.95	909.8	52.2	
	18.68	966.7	53.2	
	19.43	1025.6	54.2	
	20.07	1076.3	55.0	

REQUIRED TCAPE INFORMATION

TCAPE Factors For Vehicle

Selected Rear Axle Gear Ratio(s): 4.3

Engine Fan Type: Viscous Screw On

Parked PTO:

Enroute PTO:

NO

ID Wheel Slip Conditions:

Road Governor/Cruise Ctrl:

No

Road Surface Type:

NO

TYPICAL

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

Vehicle Vocation: GENERAL ON HIGHWAY

Acceleration Grade (%): 0.0 Frontal Area (FT2): 96 Speed Limit on Route (MPH): 61.0 Relative Drag Coefficient: 80 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): 89 Weight on Drive Axle (LBF): 15500 Acceleration Vehicle Spd (MPH): 55.0 Transfer Case - Gear Ratio (Fuel Economy): 1.000

TIRE, FRONT 2 - RADIAL LOWPROFILE

TIRE, REAR

4 - RADIAL LOWPROFILE

Components

0001ANB AXLE CONFIGURATION (Navistar) 4x4

0002EWA AXLE, FRONT DRIVING (Dana Spicer 60-256) Single Reduction, 7,500-lb Capacity, with Hub Piloted Wheel Mounting

0005PSS STEERING GEAR (Bosch S2 8014 Plus) Power

0008GJB ALTERNATOR (Denso SC6) Brush Type, 12 Volt, 220 Amp Capacity

0012GAG ENGINE, DIESEL {International 6.6} EPA 2021, 350HP @ 2700 RPM, 700 lb-ft Torque @ 1600 RPM, 2900 RPM

Governed Speed, 350 Peak HP (Max)

0012TTM FAN DRIVE Viscous Type, Screw On, Rear Tether, Electronically Controlled

0013AXT TRANSMISSION, AUTOMATIC (Allison 2750 EVS) 5th Generation Controls, Close Ratio, 6-Speed with Double

Overdrive, with PTO Provision, Less Retarder, Includes Park Pawl, with 23,500-lb GVW and 37,500-lb GCW Max, On/

Off Highway

0013TLP TRANSFER CASE {Meritor MTC-3203} 2-Speed, Gear Drive, 3,000 lb-ft Torque Rating, Less PTO Provision, Electric

Shift Control

0014AJE AXLE, REAR, SINGLE {Dana Spicer S16-130} Single Reduction, 15,500-lb Capacity, 190 Wheel Ends

0016196 CAB Conventional 6-Man Crew Cab

0016XZA AIR CONDITIONER with Heater, Single Zone

07779445428 TIRE, FRONT 225/70R19.5 Load Range G HYBRID HD3 (CONTINENTAL), 647 rev/mile, 87 MPH, Drive 225/70R19.5

Load Range G HYBRID HD3 (CONTINENTAL), 647 rev/mile, 87 MPH, Drive

07779445428 TIRE, REAR 225/70R19.5 Load Range G HYBRID HD3 (CONTINENTAL), 647 rev/mile, 87 MPH, Drive 225/70R19.5

Load Range G HYBRID HD3 (CONTINENTAL), 647 rev/mile, 87 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.

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Ratings 2022 CV515 SFA (CV515)

GVWR Component Rating(s)

				J(-/				
Ratings	Pri	imary		Adji	GAWR*	GVWR**		
	ATA Class	Feature	Rating (lbf)	ATA Class	Feature	Rating (lbf)	(lbf)	(lbf)
Front Component Ratings	BRAKES, FRONT	0004XCU	8000					
	SUSPENSION, FRONT, SPRING	0003AJN	7500					
	WHEELS, FRONT	0027DVT	8380	TIRE, FRONT	0777944	7940		
	AXLE, FRONT DRIVING	0002EWA	7500					
Front GAWR							7500	
Rear Component Ratings	BRAKES, REAR	0004XCV	15500					
	SUSPENSION, REAR, SINGLE	0014SAE	15500					
	WHEELS, REAR	0028DVT	15880	TIRE, REAR	0777944	15000		
	AXLE, REAR, SINGLE	0014AJE	15500					
Rear GAWR							15000	
Overall Vehicle Limitations	TRANSMISSION, AUTOMATIC	0013AXT	23500					
	ENGINE, DIESEL	0012GAG	23500					
GVWR Based on Axle Ratings***								22500
Calculated GVWR								22500

GCWR Component Rating(s)

				<u> </u>				
Ratings	Primary			Adjusted By			GCWR****	
	ATA Class	Feature	Rating (lbf)	ATA Class	Feature	Rating (lbf)	(lbf)	
GCWR Component Rating	AXLE, REAR, SINGLE	0014AJE	37500					
	TRANSMISSION, AUTOMATIC	0013AXT	37500					
	ENGINE, DIESEL	0012GAG	37000					
Calculated GCWR							37000	

^{*} 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.