

# TECHNICAL SPECIFICATION

## VHD104F300 Daycab - 113.6" BBC

				WEIGHT (LB)	
MODEL PACKAGE		DESCRIPTION		FRONT	REAR
S	012211	MARKETING MODEL	VHD104F300	0	0
S	99X76X	MANUFACTURING LOCATION	VOLVO TRUCKS - ASSEMBLED IN THE USA	0	0
S	007211	00 MODEL	VHD104F300	8,199	5,988
S	DDX15X	CHASSIS TYPE	TRUCK	0	0
S	CDX23X	MODEL SERIES	VHD / VAH MODELS - 113.6" BBC	0	0
	M84033	INTENDED REGISTRATION LOCATION	NORTH CAROLINA	0	0
	MBT09T	VEHICLE CERTIFICATION	EPA (ONLY) FOR VOLVO 11L / 13L DIESEL	0	0
S	920013	MODEL PACKAGE	CLEAN BACK OF CAB PACKAGE, 100 GALLON D-SHAPED FUEL TANK WITH INTEGRATED DEF TANK (VHDF)	0	0

				WEIGHT (LB)	
VEHICLE ADAPTATION		DESCRIPTION		FRONT	REAR
	M46001	DEALERSHIP REGION	SOUTH-EAST REGION	0	0
S	36XF1X	LANGUAGE ON DECALS	ENGLISH/SPANISH LANGUAGE ON DECALS	0	0
S	38XCNX	OPERATOR'S MANUAL LANGUAGE	ENGLISH	0	0
S	125001	AREA/DOMICILE (EXHAUST)	49 STATE + CANADA / NON CALIFORNIA	0	0
S	GPXA1X	FEDERAL BRIDGE CALCULATION/SPIF CERTIFICATION	USA FEDERAL BRIDGE 34K LBS MAX REAR AXLE GAWR CALC (SEE VEHICLE CERTIFICATION SHEET FOR ACTUAL GVWR)	0	0
S	263206	VEHICLE APPLICATION	TRUCK / ASPHALT OR DUMP BODY	0	0
S	898003	VEHICLE WARRANTY QUALIFICATION	STANDARD HEAVY DUTY WARRANTY QUALIFIED	0	0
S	259003	VEHICLE VOCATION	CONSTRUCTION SERVICE	0	0
S	260006	OPERATING CONDITIONS	ON HIGHWAY, STARTING GRADES <16%	0	0
S	QCXA1X	TOPOGRAPHY	MOSTLY FLAT, MOST GRADES <3% (EX. OHIO)	0	0
S	E1BD1X	AMBIENT TEMPERATURE UPPER LIMIT	SUMMER AMBIENT TEMPERATURES DO NOT REGULARLY EXCEED 104 DEGREE F (40 DEGREE C)	0	0
S	264001	LOADING SURFACE FACTOR	CONCRETE LOADING AND / OR UNLOADING SURFACE	0	0
S	DHX20X	OPERATING CLASS	OPERATING CLASS TWO (ON/OFF HIGHWAY)	0	0
	938001	CUSTOMER FLEET SIZE	DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND	0	0
	M85001	QUICK QUOTE PROCESS	QUICK QUOTE AUTO APPROVAL	0	0

				WEIGHT (LB)	
PASSIVE AND ACTIVE SAFETY		DESCRIPTION		FRONT	REAR
S	2CXD3X	CAB TYPE	300 - DAY CAB WITH B-PILLAR EXHAUST	25	20
S	DUXA1X	SRS AIR BAG	AIR BAG, BASIC CONFIGURATION	0	0
S	43X40X	AUXILIARY DOWN VIEW MIRROR	DOWN VIEW MIRROR OVER PASSENGER DOOR	0	0
S	WPXB1X	ABS TRACTION CONTROL	6 CHANNEL TRACTION CONTROL WITH LIMITED DISABLE	0	5
S	3MBA1X	PARK BRAKE ALARM	PARK BRAKE ALARM, SOUNDS IF BRAKE OFF AND DRIVER'S DOOR OPENED	0	0

				WEIGHT (LB)	
ENGINE		DESCRIPTION		FRONT	REAR
S	1018P0	ENGINE PACKAGE	VOLVO D11 325HP 2100RPM 1250 LBFT - EPA'21 EMISSION LEVEL	0	0

# TECHNICAL SPECIFICATION *(cont.)*

				WEIGHT (LB)	
ENGINE EQUIPMENT		DESCRIPTION		FRONT	REAR
S	KWXA1X	AIR CLEANER	SINGLE STAGE AIR CLEANER	0	0
S	JWXD1X	AIR INTAKE	HOOD MOUNTED AIR INTAKE	0	0
S	H9XM1X	RADIATOR	930 SQ IN, 2 ROW CORE RADIATOR	0	0
S	209012	RADIATOR COOLANT	EXTENDED LIFE ETHYLENE GLYCOL ANTI-FREEZE (RED), -34 F (-37 C)	0	0
S	208029	FAN CLUTCH PACKAGE	ELECTRONIC VISCOUS CSI FAN CLUTCH	0	0
S	NCXA5X	STARTER MOTOR	DELCO REMY 12V 39MTHD STARTER	0	0
S	PJXMNX	ALTERNATOR	160 AMP DELCO REMY 28SI ALTERNATOR (12V)	0	0
S	810113	BATTERY PACKAGE	3 VOLVO 760 CCA MAINTENANCE FREE 12V BATTERIES, 2280 CCA	36	12
	L4X17X	BATTERY BOX MOUNTING	BATTERY BOX, LEFT HAND SIDE, BEHIND FUEL TANK	0	0
S	NQXB1X	BATTERY BOX CONFIGURATION	BATTERY BOX - 3 CAPACITY	0	0
S	L5XA1X	BATTERY BOX COVER	BASIC BATTERY BOX COVER	0	0
S	NFXA0X	BATTERY DISCONNECT SWITCH	MANUAL BATTERY DISCONNECT MAIN SWITCH	0	0
	428004	DIESEL EXHAUST FLUID TANK	8.7 GALLON LH 26", FUEL TANK MOUNTED - VHD ONLY (FILLED WITH 8.7 GALLONS OF DEF, WEIGHING 79 LBS)	95	51
	230051	EXHAUST SYSTEM	INTEGRATED DPF & SCR FORWARD MTD RHS UNDER CAB W/ CAB MTD VERTICAL PIPE	0	0
S	232088	EXHAUST OUTLET PACKAGE	10' 0" ALUMINIZED STAINLESS STEEL SINGLE STACK	0	0
S	K0XC4X	EXHAUST FEATURES	STRAIGHT STACK, SIDE OUTLET DIFFUSER BOX	0	0
S	KNXC1X	EXHAUST SHIELD	ALUMINUM EXHAUST SHIELD	0	0
S	JVXH1X	PRIMARY FUEL FILTER	VOLVO DUAL ENGINE MOUNTED FUEL FILTERS WITH WATER SEPARATOR	0	0
S	MBXA1X	PRIMARY FUEL FILTER LOCATION	STANDARD FUEL FILTER LOCATION	0	0
S	VWXCAX	COMPRESSOR	WABCO 31.8 CFM COMPRESSOR	0	0
S	J2EAAX	ENGINE BRAKE ACTIVATION	ENGINE BRAKE ACTIVATION, BASIC	0	0
S	QHXC1X	ENGINE OIL PAN	STAMPED STEEL OIL PAN (STANDARD OIL CHANGE INTERVALS)	0	0

				WEIGHT (LB)	
TRANSMISSION		DESCRIPTION		FRONT	REAR
S	270708	TRANSMISSION PACKAGE	VOLVO 12 SPEED I-SHIFT SEVERE DUTY, ATO2612F OVERDRIVE	-2	0
S	295009	TRANSMISSION ELECTRONICS PACKAGE	PERFORMANCE (VOCATIONAL) I-SHIFT TRANSMISSION ELECTRONICS	0	0
S	RVXH5X	GEAR SHIFT CONTROL	GEAR SHIFT LEVER, SEAT MOUNTED, PREMIUM, I-SHIFT	0	0
S	B1EA1X	TRANSMISSION AUTO NEUTRAL ON P-BRAKE	VOLVO I-SHIFT TRANSMISSION AUTO NEUTRAL ON PARK BRAKE	0	0
S	31AA2X	HILL START ASSIST	HILL START ASSIST	0	0
S	6SAA1X	TRANSMISSION KICK-DOWN MODE	VOLVO I-SHIFT TRANSMISSION KICK-DOWN MODE, ENABLED IN ECONOMY AND PERFORMANCE MODES	0	0
S	4LDA1X	TRANSMISSION OUTPUT TORQUE	STANDARD OUTPUT TORQUE	0	0
S	779998	ALLISON INPUT AND OUTPUT PACKAGE	NO ALLISON INPUT AND OUTPUT PACKAGE	0	0
S	778998	FUEL SENSE PACKAGE	NO FUEL SENSE PACKAGE	0	0
S	T2XB1X	TRANSMISSION COOLER	WATER TO OIL TRANS COOLER MOUNTED ON TRANSMISSION	0	0
S	D4AB1X	AMT/AUTOMATIC TRANS PTO FUNCT.	TRANSMISSION PTO FUNCTIONS ENHANCED	0	0
S	195213	DRIVELINE - MAIN	DANA/SPICER SPL250 LITE (PROPS-L)	0	0
S	THXC5X	DRIVELINE MANUFACTURER	PROP. SHAFT MANUF. BY SPICER SPL LIGHT SERIES	135	135
S	204201	DRIVELINE - INTERAXLE	DANA-SPICER SPL170XL EXTENDED LUBE SERIES	0	0
S	250111	CLUTCH	VOLVO SACHS 17" SINGLE PLATE DAMPENED ORGANIC FOR I-SHIFT	0	0

# TECHNICAL SPECIFICATION *(cont.)*

				WEIGHT (LB)	
PROGRAMMABLE FEATURES		DESCRIPTION		FRONT	REAR
	9KAA1X	IDLE EMISSION CERTIFICATION	IDLE EMISSION CERTIFICATION, BASIC	0	0
S	A3AAAX	ENGINE IDLE AUTOMATIC SHUTDOWN (AL)	ENGINE IDLE SHUTDOWN, ENABLE	0	0
S	E0XFLX	ENGINE IDLE SHUTDOWN TIME (AM)	IDLE SHUTDOWN TIME 5 MINUTES	0	0
S	K7XA1X	ENGINE IDLE CONTROL (CMQ)	BASIC ENGINE IDLE CONTROL	0	0
S	D3AAEX	AMBIENT TEMP MAX THRESHOLD (CMO)	MAXIMUM AMBIENT AIR TEMPERATURE OVER-RIDE, 80 DEG F (27 DEG C)	0	0
S	D2AACX	AMBIENT TEMP MIN THRESHOLD (CMN)	MINIMUM AMBIENT AIR TEMPERATURE OVER-RIDE, 45 DEG F (7 DEG C)	0	0
S	JDXD1X	CRUISE CONTROL (AG)	WITH ECO CRUISE CONTROL	0	0
S	JFXLRX	CRUISE CONTROL, MAXIMUM SPEED (AI)	MAXIMUM CRUISE, 68 MPH (110 KM/H)	0	0
S	Y3CC5X	PEDAL ROAD SPEED LIMIT SETTING (P1I16)	PEDAL ROAD SPEED LIMIT, 65 MPH (105 KM/H)	0	0
S	JCXF1X	ROAD SPEED LIMIT SETTING (P1AOC)	ROAD SPEED LIMIT, 68 MPH (110 KM/H)	0	0
S	U4AA1X	GEAR DOWN VEHICLE SPEED LIMITER (P1AL0)	GEAR DOWN VEHICLE SPEED LIMITER ENABLED	0	0
S	U5AL1X	GEAR DOWN VEHICLE SPEED LIMIT (P1AOD)	GEAR DOWN VEHICLE SPEED, 63 MPH (101 KM/H)	0	0
S	E3AAEX	CRUISE CONTROL MIN SPEED (BK)	MIN CRUISE, 30 MPH (48 KM/H)	0	0
S	E5AAEX	ENG BRAKE ENGAGE IN CRUISE (AF)	ENGAGE ENGINE BRAKE 5 MPH (8.0 KM/H) ABOVE SET CRUISE SPEED	0	0
S	X2BA1X	ROAD SPEED LIMIT CONTROL TYPE (P1I01)	WITH ECO RSL CONTROL	0	0
S	0NAA1X	OPTIMIZED FUEL ECON INDICATOR (P1LXM)	OPTIMIZED FUEL ECONOMY INDICATOR, SWEET SPOT	0	0
S	X1BA1X	ENGINE LOAD IN PTO (CMM)	30% MINIMUM ENGINE LOAD LIMIT IN PTO BEFORE ALLOW IDLE SHUTDOWN	0	0
S	W5BE1X	MAXIMUM ENGINE SPEED AT 0 MPH (P1ANA)	1400 MAXIMUM ENGINE RPM AT 0 MPH	0	0
S	X4BA1X	COOLANT WARM HOLD TEMP (KBS)	COOLANT WARM HOLD TEMP ENABLED	0	0
S	R4BA1X	PRE-TRIP DIAGNOSTIC INSPECTION (JZU)	PRE-TRIP DIAGNOSTICS INSPECTION	0	0
S	K5XA2X	ENGINE PROTECTION SYSTEM (P1FQT)	ENGINE PROTECTION (SHUTDOWN)	0	0
S	EXXGSX	PTO MAXIMUM ENGINE SET SPEED (AND)	PTO ENGINE MAXIMUM 700 RPM	0	0
S	EYXGSX	PTO RESUME ENGINE SET SPEED (ANE)	PTO ENGINE RESUME 700 RPM	0	0

				WEIGHT (LB)	
FRONT AXLE		DESCRIPTION		FRONT	REAR
S	370406	FRONT AXLE PACKAGE	VOLVO VF20 18,800 LB FRONT SPRINGS	131	0
S	70BB1X	BRAKE REGULATION	BRAKE REGULATION, STOPPING DISTANCE 310 FT (94M)	0	0
S	782005	FRONT BRAKE & HUB PACKAGE	FRONT BRAKE MERITOR, Q+ CAST, STANDARD LUBE	45	0
S	U5XB1X	FRONT BRAKE DIMENSION	16.5X6 FRONT BRAKE SIZE	16	0
S	U3XA1X	BRAKE TYPE, FRONT AXLE	CAST IRON FRONT BRAKE DRUM OUTBOARD MOUNTED	0	0
S	LQXAWX	FRONT BRAKE LINING MATERIAL	BRAKE LINING MATERIAL FRONT, MERITOR MA 2301	0	0
S	K2EA1X	BRAKE SHOE COATING FRONT	BRAKE SHOE COATING FRONT, BASIC	0	0
S	UDXA1X	FRONT AXLE BRAKE DUST SHIELD	FRONT BRAKE DUST SHIELDS	0	0
S	0KXG1X	HUBS, FRONT AXLE	IRON UNITIZED FRONT AXLE HUBS	0	0
	162001	FRONT AXLE LUBRICANT	GREASE, FAG NLGI2 FRONT AXLE LUBRICANT	0	0
S	XAXBFX	POWER STEERING GEAR	TRW THP60 INTEGRAL POWER STEERING GEAR	0	0

# TECHNICAL SPECIFICATION *(cont.)*

				WEIGHT (LB)	
FRONT AXLE		DESCRIPTION		FRONT	REAR
<b>S</b>	XEXB1X	POWER STEERING ASSIST	DUAL STEERING GEARS	49	0
<b>S</b>	M0XB1X	STEERING SHAFT TYPE	GREASEABLE STEERING SHAFT	-2	0
<b>S</b>	371072	FRONT SUSPENSION PACKAGE	MULTILEAF FRONT SUSPENSION	217	0
<b>S</b>	IRXA1X	FRONT SUSP MAINTENANCE	LUBRICATED SPRING PINS AND BUSHINGS	0	0

				WEIGHT (LB)	
REAR AXLE		DESCRIPTION		FRONT	REAR
<b>S</b>	330684	REAR AXLE PACKAGE	MERITOR MT-40-14X4D HYPOID (HEAVY DUTY HOUSING) 40,000 LB CAPACITY	0	0
<b>S</b>	TAXESX	REAR AXLE RATIO	3.42 REAR AXLE RATIO	0	0
<b>S</b>	TUXA1X	DIFFERENTIAL LOCK	FULL LOCKING WHEEL DIFFERENTIAL	0	64
<b>S</b>	350378	REAR SUSPENSION PACKAGE	40,000 LB VOLVO T-RIDE (3-LEAF) 54" SPACING	0	501
<b>S</b>	YVXA1X	REAR SHOCK ABSORBER	SHOCK ABSORBERS, DRIVE AXLES	0	102
<b>S</b>	783023	REAR BRAKE & HUB PACKAGE	REAR BRAKE MERITOR, CAST S-CAM,STD LUBE, Q+HIGH PARK CAPACITY	0	0
<b>S</b>	U8XA1X	DRIVE AXLE BRAKE DIMENSION	16.5X7 REAR BRAKE SIZE	0	0
<b>S</b>	U4XA1X	BRAKE TYPE, DRIVE AXLE	CAST IRON DRIVE AXLE BRAKE DRUM OUTBOARD MOUNTED	0	0
<b>S</b>	UEXA1X	DRIVE AXLE BRAKE DUST SHIELD	REAR BRAKE DUST SHIELDS	0	0
<b>S</b>	MAXAKX	DRIVE AXLE BRAKE LINING MATERIAL	BRAKE LINING MATERIAL DRIVE, MERITOR MA 2301	0	0
<b>S</b>	J8EA1X	BRAKE SHOE COATING DRIVE	BRAKE SHOE COATING DRIVE, BASIC	0	0
<b>S</b>	0LXI1X	HUBS, DRIVE AXLE	ALUMINIUM PRESET PLUS DRIVE AXLE HUB WITH INTEGRATED SPINDLE NUT	0	-103
<b>S</b>	163002	DRIVE AXLE LUBRICANT	SYNTHETIC OIL, SHELL 75W90 DRIVE AXLE LUBRICANT	0	0
<b>S</b>	781116	PARKING BRAKE CHAMBER PACKAGE	FOUR CAM TYPE HALDEX GOLD SEAL PLUS	0	14
<b>S</b>	V1AC1X	REAR BRAKE CHAMBER SIZE	REAR BRAKE CHAMBER 30 / 36 SQ INCHES (SERVICE / EMERGENCY)	0	0
<b>S</b>	UKXB1X	CHAMBER STROKE LENGTH, DRIVE AXLE	EXTENDED LENGTH BRAKE CHAMBER STROKE	0	0
<b>S</b>	784010	DRUM BRAKE SLACK ADJUSTERS	HALDEX BRAKE ADJUSTER FRONT, REAR, AND PUSHER	0	0
<b>S</b>	O5BD1X	FRONT BRAKE CHAMBER SIZE	FRONT BRAKE CHAMBER 24 SQUARE INCHES (SERVICE)	0	0

				WEIGHT (LB)	
AUXILIARY AXLE		DESCRIPTION		FRONT	REAR
<b>S</b>	335039	AUXILIARY AXLE PACKAGE	2 HENDRICKSON COMPOSILITE SC 13K STEERABLE PUSHER,AUX WHL & TIRES SUBJECT TO HEND TIRE TO GRND GUIDE	0	0
<b>S</b>	164002	PUSHER AXLE LUBRICANT	MINERAL OIL, CHEVRON DELO 80W90 PUSHER AXLE LUBRICANT	0	0
<b>S</b>	GYXGCX	FIRST PUSHER AXLE SPACING	48" (1220MM) AHEAD OF FWD DRIVE AXLE	0	0
<b>S</b>	GZXNPX	SECOND PUSHER AXLE SPACING	91" (2320MM) AHEAD OF FWD DRIVE AXLE	0	0
<b>S</b>	U9XB3X	AUXILIARY AXLE BRAKE DIMENSION	15X5 AUXILIARY AXLE BRAKE SIZE	0	0
<b>S</b>	U6XA1X	BRAKE TYPE, AUXILIARY AXLE	CAST IRON AUXILIARY AXLE BRAKE DRUM OUTBOARD MOUNTED	0	0
<b>S</b>	785001	PUSHER AND TAG AXLE BRAKE PACKAGE	PUSHER BRAKE MERITOR Q+, CAST, STANDARD LUBE	0	5
	UFXA1X	AUXILIARY AXLE BRAKE DUST SHIELDS	AUXILIARY AXLE BRAKE DUST SHIELDS	0	5
<b>S</b>	Q2BB4X	BRAKE LINING MATERIAL, PUSHER	BRAKE LINING MATERIAL PUSHER, MERITOR SOR2003	0	0
<b>S</b>	786005	PUSHER AND TAG AXLE BRAKE CHAMBER PACKAGE	PUSHER WITH HALDEX CHAMBERS	0	0
<b>S</b>	Q6BB1X	PUSHER BRAKE CHAMBER SIZE	PUSHER BRAKE CHAMBER 16SQ INCHES	0	0

# TECHNICAL SPECIFICATION *(cont.)*

				WEIGHT (LB)	
AUXILIARY AXLE		DESCRIPTION		FRONT	REAR
<b>S</b>	8CXB1X	AUXILIARY AXLE CONTROL LOCATION	INSIDE CAB AUXILIARY AXLE CONTROL, UP/DOWN SWITCH ONLY INSIDE, AIR REGULATOR & GAUGE OUTSIDE OF CAB	0	0
<b>S</b>	0NXD1X	HUBS, AUXILIARY AXLE	ALUMINUM PRESET PLUS AUXILIARY AXLE HUB WITH INTEGRATED SPINDLE NUT	0	-30

				WEIGHT (LB)	
CHASSIS		DESCRIPTION		FRONT	REAR
<b>S</b>	3XBACX	DRIVER SIDE FRONT CHASSIS CONFIGURATION	LEFT HAND BATTERY BOX - 3 CAPACITY BEHIND FUEL TANK, DEF TANK MOUNTED TO LEFT HAND FUEL TANK (VHDF)	0	0
<b>S</b>	3YBAAX	PASSENGER SIDE FRONT CHASSIS CONFIGURATION	INTEGRATED FORWARD MOUNTED DPF & SCR (VHDF) OR VERTICAL SCR (VNL)	0	0
<b>S</b>	400262	WHEELBASE	262" WHEELBASE	567	565
<b>S</b>	402075	OVERHANG	75" OVERHANG	0	325
	KBXB2X	FUEL TANK SHAPE, LIQUID	26" DIA D-SHAPED FUEL TANK	0	0
	J8XEWX	LIQUID FUEL TANK, LEFTHAND SIDE	100 GALLON LEFT HAND FUEL TANK	12	12
<b>S</b>	KEXA1X	FUEL TANK MATERIAL, LIQUID	ALUMINUM FUEL TANK MATERIAL	0	0
<b>S</b>	HBXB1X	FUEL TANK POSITION - DIESEL	FUEL TANK POSITION 1	0	0
<b>S</b>	427998	HYDRAULIC OIL TANK PACKAGE	NO HYDRAULIC OIL TANK PROVIDED	0	0
<b>S</b>	8NAA1X	DPF COVER	DPF COVER, PAINTED STEEL	0	0
<b>S</b>	JHXA1X	FUEL LINES	NYLON FUEL LINES	0	0
<b>S</b>	KHXA1X	FUEL TANK STRAPS	PAINTED STEEL FUEL TANK STRAPS	0	0
<b>S</b>	KFXA1X	FUEL TANK CAP	NON-LOCKING FUEL TANK CAP	0	0
<b>S</b>	VSXD1X	AUXILIARY AIR TANK	AUXILIARY AIR TANK CAPACITY FOR TWO LIFT AXLES	12	60
<b>S</b>	8HAA1X	AIR TANK ARRANGEMENT	AIR TANK ARRANGEMENT, BASIC	0	0
<b>S</b>	U2XA1X	AIR TANKS	ALUMINUM AIR TANK	-35	-11
<b>S</b>	VHXE5X	AIR DRYER	WABCO AIR DRYER SS - HP WITHOUT TURBO CUT OFF VALVE WITH COALESCING FILTER	0	0
<b>S</b>	UWXB1X	AIR TANK DRAIN VALVE	MANUAL PULL CORD ON BRAKE SYSTEM TANKS	0	0
<b>S</b>	403010	FRAME RAIL PACKAGE	11.81"X3.54"X.44" STRAIGHT STEEL RAILS	0	0
<b>S</b>	8EXB1X	INTERMEDIATE CROSSMEMBER MATERIAL	STEEL CROSSMEMBER MATERIAL	40	42
<b>S</b>	OAXA1X	INTERMEDIATE CROSSMEMBER CONFIGURATION	BASIC INTERMEDIATE CROSSMEMBER	0	0
<b>S</b>	X6XA1X	REAR FRAME TREATMENT	STRAIGHT CUT-OFF REAR CROSSMEMBER	0	38
<b>S</b>	CA MCXAKX	CHASSIS PACKAGE	CHASSIS PACKAGING CONFIGURATION 0009, AIR TANKS IN RAIL WHERE POSSIBLE	0	0
<b>S</b>	4DXE3X	FRONT BUMPER	STEEL CONSTRUCTION BUMPER-THREE PIECE	0	0
<b>S</b>	FRXA1X	BUMPER POSITION	BUMPER MOUNTED STANDARD POSITION	0	0
<b>S</b>	65XB1X	FRONT FENDER EXTENSION	NO FRONT FENDER EXTENSION PROVIDED	0	0
<b>S</b>	4EXB1X	FRONT TOWING DEVICE	TWO FRONT TOWING DEVICES	0	0
<b>S</b>	Q8CH1X	CHASSIS WIRING HARNESS CASING	HEAVY DUTY MAIN CHASSIS WIRING HARNESS COVERING	0	0
<b>S</b>	U7CGPX	LH FUEL TANK FACE LOCATION	LH FUEL TANK FRONT FACE @ XM=3650	0	0

				WEIGHT (LB)	
TRANSPORT ADAPTATION		DESCRIPTION		FRONT	REAR
<b>S</b>	LOXB1X	ELECTRICAL CONNECTIONS BACK OF CAB	BODY BUILDER CONNECTIONS BACK OF CAB	3	0
<b>S</b>	WLXC1X	TRAILER BRAKE HAND CONTROL	DELETE TRAILER BRAKE HAND CONTROL	0	0
<b>S</b>	6WXA1X	CENTER CONSOLE FOR BODY CONTROLS	MOUNTING PLATE ONLY FOR BODY CONTROLS	0	0

# TECHNICAL SPECIFICATION *(cont.)*

				WEIGHT (LB)	
TRANSPORT ADAPTATION		DESCRIPTION		FRONT	REAR
<b>S</b>	L3XC1X	BODY BUILDER ELECTRICAL PREP	ELECTRICAL COMPLETE KIT FOR BODY BUILDER AND/OR I-SHIFT PTO'S	0	0
<b>S</b>	J9EA1X	LIFT AXLE SWITCH POS CONTROLS (CA)	LIFT SWITCH POSITIONS, 23 & 28	0	0

				WEIGHT (LB)	
CALCULATED CODES - KAX		DESCRIPTION		FRONT	REAR
<b>S</b>	9JXA1X	PROPCALC SELECTION	YES, THE ORDER MUST BE CALCULATED	0	0

				WEIGHT (LB)	
CAB EXTERIOR		DESCRIPTION		FRONT	REAR
<b>S</b>	2DX30X	CAB SUSPENSION	AIR RIDE CAB SUSPENSION WITH LATERAL DAMPENERS	-11	-2
<b>S</b>	21XA1X	AUXILIARY REAR WINDOW	STANDARD REAR WINDOW	0	0
<b>S</b>	D2XA1X	WIPER BLADES	WIPER BLADES, BASIC	0	0
<b>S</b>	28XC3X	FRONT GRILLE	BLACK STATIONARY FRONT GRILLE	0	0
<b>S</b>	0EAC1X	AIR INTAKE GRILLE, FINISH	AIR INTAKE GRILLE, BLACK	0	0
<b>S</b>	3FX49X	EXTERIOR SIDE VIEW MIRRORS	BLACK AERODYNAMIC MIRRORS	0	0
<b>S</b>	3GXC1X	EXTERIOR MIRROR FEATURES	HEATED, POWER AXIS MIRROR, BOTH SIDES	3	0
<b>S</b>	LZXD1X	AIR HORN	DUAL TRUMPET MOUNTED UNDER CAB	0	0
<b>S</b>	4NXB1X	EXTERIOR SUNVISOR	EXTERIOR SUN VISOR WITH CLEAR LENS LED MARKER LAMPS	0	0

				WEIGHT (LB)	
CAB INTERIOR		DESCRIPTION		FRONT	REAR
<b>S</b>	540088	INTERIOR TRIM LEVEL	FLEET - VINYL PANELS WITH METAL HEX TRIM	0	0
<b>S</b>	1DAF1X	SEAT MFG. AND SERIES, DRIVER	NATIONAL DRIVER SEAT	0	0
<b>S</b>	I5DA1X	SEAT PROFILE, DRIVER	STANDARD WIDTH DRIVER SEAT	0	0
<b>S</b>	520101	DRIVER SEAT	X1 WREN VINYL	0	0
<b>S</b>	3ZXG2X	DRIVER SEAT SUPPORT	DRIVER SEAT - AIR SUSPENDED	0	0
<b>S</b>	I7DA1X	SEAT COMFORT, DRIVER	DRIVER SEAT - ONE AIR ADJUSTABLE LUMBAR CHAMBER	0	0
<b>S</b>	1GAF1X	SEAT MFG. & SERIES, PASSENGER	NATIONAL PASSENGER SEAT	0	0
<b>S</b>	I6DA1X	SEAT PROFILE, PASSENGER	STANDARD WIDTH PASSENGER SEAT	0	0
<b>S</b>	521101	PASSENGER SEAT	X1 WREN VINYL	0	0
<b>S</b>	34XAAX	PASSENGER SEAT SUPPORT	PASSENGER SEAT - FIXED WITH INTEGRATED STORAGE	0	0
<b>S</b>	0HAA1X	SEAT SUPPORT, DUST COVER	SEAT BASE DUST COVER, DRIVER SIDE	0	0
<b>S</b>	K7AA1X	SAFETY BELT LENGTH	STANDARD SAFETY BELT LENGTH	0	0
<b>S</b>	OUXA1X	SAFETY BELT DRIVER SEAT	SAFETY BELT DRIVER SEAT, BLACK	0	0
<b>S</b>	OXXA1X	SAFETY BELT PASSENGER SEAT	SAFETY BELT PASSENGER SEAT, BLACK	0	0
<b>S</b>	4AXB1X	CLIMATE UNIT	INTEGRAL AIR CONDITIONER WITH HEATER - MANUAL CONTROLS	0	0
<b>S</b>	31XK2X	FLOOR MATS	FRONT FLOOR INSERTS, RUBBER	0	0
<b>S</b>	4JXD1X	STORAGE OVERHEAD DRIVER	NETTED OVERHEAD STORAGE (DRIVER / PASSENGER SIDES) WITH CB MOUNTING AND AUXILIARY SWITCHES	0	0
<b>S</b>	XRXB1X	STEERING WHEEL ADJUSTMENT	STANDARD STEERING WHEEL ADJUSTMENT	0	0
<b>S</b>	7BAA3X	STEERING WHEEL MATERIAL	STANDARD STEERING WHEEL COVERING	0	0
<b>S</b>	571020	GAUGE PACKAGE	EIGHT GAUGE INSTRUMENT CLUSTER	0	0

# TECHNICAL SPECIFICATION *(cont.)*

				WEIGHT (LB)	
CAB INTERIOR		DESCRIPTION		FRONT	REAR
<b>S</b>	PVXA2X	AIR RESTRICTION INDICATOR	GRADUATED ARI ON FILTER	0	0
<b>S</b>	N8XD1X	SPEEDOMETER GRADUATION	MPH SPEEDOMETER GRADUATION	0	0

				WEIGHT (LB)	
LIGHTING		DESCRIPTION		FRONT	REAR
<b>S</b>	P8XB9X	HEADLAMPS	LED HEADLAMPS WITH SIGNATURE DRL	0	0
<b>S</b>	LSXG1X	DAYTIME RUNNING LAMPS (DRL)	EQUIPPED WITH DAYTIME RUNNING LIGHTS	0	0
<b>S</b>	NEXC1X	STOP AND TAIL LIGHTS	DUAL WITH INTEGRAL BACKUP LIGHTS	0	0
<b>S</b>	NPXB1X	TURN SIGNAL SWITCH	SELF CANCELLING TURN SIGNAL	0	0

				WEIGHT (LB)	
AUDIO SYSTEM		DESCRIPTION		FRONT	REAR
<b>S</b>	590031	RADIO PACKAGE	AM / FM / MP3 / USB / BLUETOOTH RADIO	0	0
<b>S</b>	73AJ1X	RADIO ANTENNA	SINGLE RIGHT HAND 48 INCH MIRROR MOUNTED RADIO ANTENNA	3	0
<b>S</b>	LYXF1X	STEERING WHEEL CONTROLS	WITH STEERING WHEEL SWITCHES	3	0
<b>S</b>	N0XA1X	MARKER INTERRUPTER SWITCH	MARKER INTERRUPTER SWITCH	0	0
<b>S</b>	5CXA1X	RADIO SPEAKERS	SPEAKERS IN DASH ONLY	0	0
<b>S</b>	5JXB1X	CB RADIO MOUNTING	OVERHEAD MOUNTED CB HOLD DOWN	0	0
<b>S</b>	5BXB5X	CB ANTENNA	SINGLE LEFT HAND 48 INCH MIRROR MOUNTED CB ANTENNA	0	0

				WEIGHT (LB)	
MISC CAB EQUIPMENT		DESCRIPTION		FRONT	REAR
<b>S</b>	2XX35X	WINDOW LIFT	POWER WINDOW LIFT BOTH DOORS	7	5
<b>S</b>	3AXB1X	DOOR LOCKS CAB	MANUAL CAB DOOR LOCKS	0	0
<b>S</b>	20XA1X	KEY TYPE	BASIC UNIQUE KEY	0	0
<b>S</b>	8BXB1X	KEY QUANTITY PER UNIT	4 KEYS PROVIDED PER UNIT	0	0
<b>S</b>	EAXB1X	AUXILIARY SWITCH	TWO (2) AUXILIARY SWITCHES WITH WIRING, 15 AMP PER SWITCH	0	0
<b>S</b>	W7DA5X	AUXILIARY DASH SWITCH PANEL	AUXILIARY DASH SWITCH PANEL, 10	0	0

				WEIGHT (LB)	
TIRES AND WHEELS FRONT		DESCRIPTION		FRONT	REAR
<b>S</b>	093871	TIRE PACKAGE FRONT	315/80R22.5L BRIDGESTONE M870 (20000 LBS. GAWR) ON/OFF ROAD USAGE (Total for QTY = 2)	336	0
<b>S</b>	4WCC1X	TIRE CLASSIFICATION FRONT (CA)	GHG FRONT TIRE CLASSIFICATION, LOW ROLLING RESISTANCE	0	0
<b>S</b>	084562	WHEEL PACKAGE FRONT	22.5X9.00 ACCURIDE STEEL POWDER COAT WHITE 286BC 5 HAND HOLES HUB PILOTED (Total for QTY = 2)	208	0
<b>S</b>	907002	FRONT WHEEL AND TIRE QUANTITY	TWO WHEELS AND TIRES FRONT	0	0

				WEIGHT (LB)	
TIRES AND WHEELS REAR		DESCRIPTION		FRONT	REAR
<b>S</b>	094736	TIRE PACKAGE DRIVE	11R22.5G BRIDGESTONE R268 (23360 LBS. GAWR) REGIONAL HAUL (STEER/ALL POSITION) (Total for QTY = 8)	0	971
<b>S</b>	4XCC1X	TIRE CLASSIFICATION REAR (CA)	GHG REAR TIRE CLASSIFICATION, LOW ROLLING RESISTANCE	0	0

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# TECHNICAL SPECIFICATION *(cont.)*

				WEIGHT (LB)	
TIRES AND WHEELS REAR		DESCRIPTION		FRONT	REAR
<b>S</b>	085069	WHEEL PACKAGE DRIVE	22.5X8.25 ACCURIDE STEEL POWDER COAT WHITE 286BC 5 HAND HOLES HUB PILOTED (Total for QTY = 8)	0	547
<b>S</b>	908008	DRIVE WHEEL AND TIRE QUANTITY	EIGHT WHEELS AND TIRES DRIVE	0	0

				WEIGHT (LB)	
TIRES AND WHEELS AUXILIARY		DESCRIPTION		FRONT	REAR
<b>S</b>	095620	TIRE PACKAGE AUXILIARY AXLE	275/70R22.5J BRIDGESTONE R250ED (14000 LBS. GAWR) REGIONAL / URBAN USAGE (Total for QTY = 4)	0	441
	4YCA1X	TIRE CLASSIFICATION AUXILIARY (CA)	GHG AUXILIARY TIRE CLASSIFICATION, ADVANCED LOW ROLLING RESISTANCE	0	0
<b>S</b>	086069	WHEEL PACKAGE AUXILIARY AXLE	22.5X8.25 ACCURIDE STEEL POWDER COAT WHITE 286BC 5 HAND HOLES HUB PILOTED (Total for QTY = 4)	0	274
<b>S</b>	0EXA1X	WHEEL & TIRE MOUNTING-AUXILIARY AXLE	SINGLE WHEEL/TIRE MOUNT-AUXILIARY AXLE	0	0
<b>S</b>	909004	AUXILIARY AXLE WHEEL AND TIRE QUANTITY	FOUR WHEELS AND TIRES AUXILIARY AXLE	0	0

				WEIGHT (LB)	
MISC TIRE EQUIPMENT		DESCRIPTION		FRONT	REAR
<b>S</b>	15XABX	TIRE INFLATION VALVE	TIRE INFLATION VALVE, STANDARD	0	0

				WEIGHT (LB)	
PAINT		DESCRIPTION		FRONT	REAR
<b>S</b>	950800	CAB PAINT SCHEME	1 COLOR	0	0
<b>S</b>	9801T4	FIRST TRUCK COLOR	GLACIER WHITE; P3029	0	0
<b>S</b>	959998	NEW PAINT DEVELOPMENT FEE	NO NEW PAINT DEVELOPMENT FEE	0	0
	BG2012	PAINT BUG CODE	BUG CODE EY	0	0
<b>S</b>	MPB980	CAB COLOR	CAB SAME AS FIRST COLOR	0	0
<b>S</b>	MPD980	HOOD COLOR	HOOD SAME AS FIRST COLOR	0	0
<b>S</b>	MPE980	COWL COLOR	COWL SAME AS FIRST COLOR	0	0
	987998	BUMPER COLOR	UNPAINTED BUMPER / POWDER COAT / NO BUMPER COLOR PROVIDED	0	0
<b>S</b>	996980	SUN VISOR COLOR	SUN VISOR SAME AS FIRST COLOR	0	0
<b>S</b>	9861U1	CHASSIS COLOR	BLACK; P3036	0	0
<b>S</b>	988401	DISC WHEEL OR RIM COLOR	STEEL DISC WHEELS - PREPAINTED WHITE, POWDER - COAT, ALUMINUM OR STYLIZED DISC - UNPAINTED	0	0

				WEIGHT (LB)	
BUSINESS SERVICES		DESCRIPTION		FRONT	REAR
<b>S</b>	9LAA1X	PRE-DELIVERY INSPECT LOCATION	PRE-DELIVERY INSPECTION, OUTSIDE FACTORY	0	0
<b>S</b>	935002	LEAD TIME ITEM	CA MODEL	0	0

				WEIGHT (LB)	
OUTSIDE MODIFICATION PLANNING		DESCRIPTION		FRONT	REAR
<b>S</b>	615998	OUTSIDE MODIFICATION IN-SERVICE PLANNING CODE	NO FONTAINE IN-SERVICE PLANNING CODE	0	0
<b>S</b>	617998	OUTSIDE MODIFICATION BODY INSTALL CODE	NO FONTAINE BODY INSTALL	0	0
<b>S</b>	618998	OUTSIDE MODIFICATION AUXILIARY AXLE INSTALL CODE	NO FONTAINE AUXILIARY INSTALL	0	0

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TECHNICAL SPECIFICATION (cont.)

				WEIGHT (LB)	
OUTSIDE MODIFICATION PLANNING			DESCRIPTION	FRONT	REAR
S	609998	OUTSIDE MODIFICATION LEAD TIME CODE	NO FONTAINE LEAD TIME	0	0

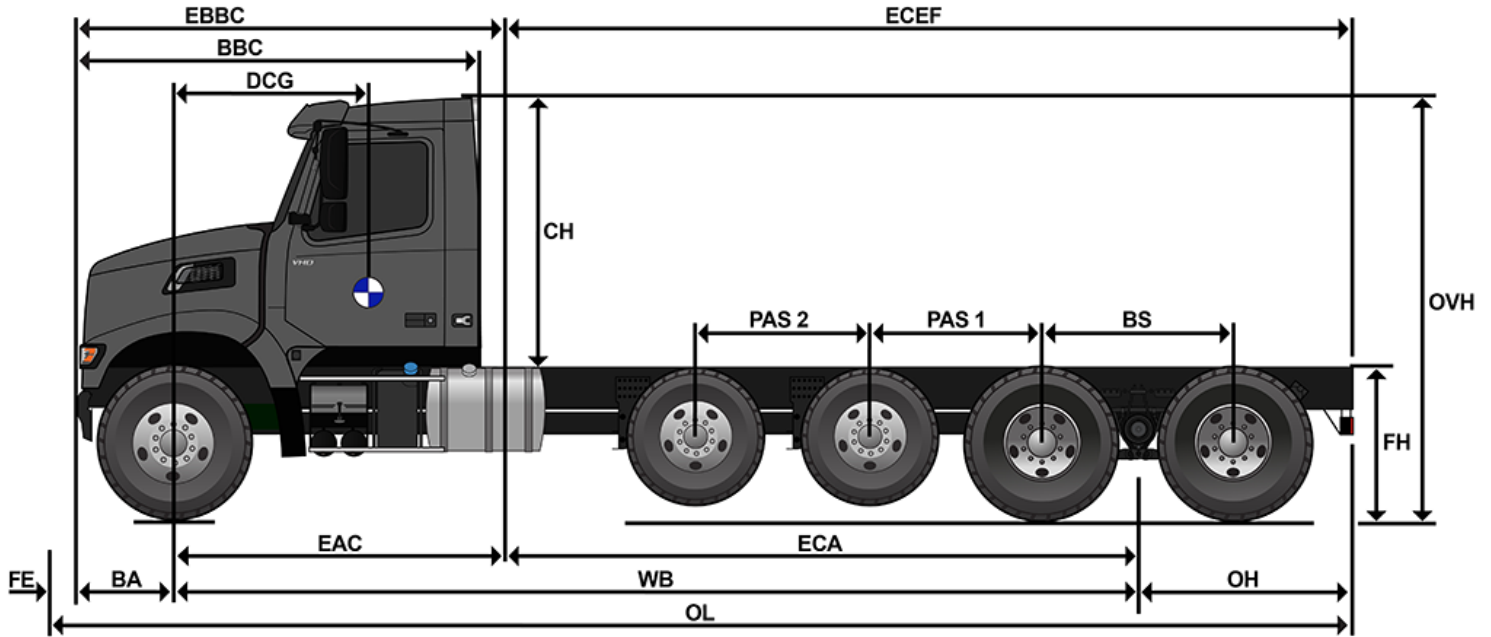
				WEIGHT (LB)	
BASE WARRANTY AND PURCHASED COVERAGES			DESCRIPTION	FRONT	REAR
S	899302	WARRANTY TYPE	HEAVY_DUTY_STANDARD_BASE_COVERAGE 12_MONTHS / 100,000_MILES	0	0
S	896900	VOLVO D11/D13 ENGINE EXTENDED COVERAGE	VOLVO D11/D13 BASE ENGINE COVERAGE - 24MTHS/250K MILES	0	0
	M8309T	EMISSION - SURCHARGE	EPA (ONLY) FOR VOLVO 11L / 13L DIESEL	0	0
S	M99998	CUSTOM/BUNDLED PURCHASE COVERAGE OPTIONS	NO CUSTOM/BUNDLED PURCHASE COVERAGE OPTIONS PROVIDED	0	0
S	875001	VEHICLE EMISSIONS COMPONENTS COVERAGE	US & CANADA VOLVO ENGINE EQUIPPED VEHICLE EMISSIONS COMPONENTS COVERAGE_60 MONTHS/100K_MILES	0	0
S	880301	TRANSMISSION COVERAGE	36 MO: STANDARD I-SHIFT FOR SEVERE DUTY AND I-SHIFT WITH CRAWLER GEARS TRANS,HEAVY DUTY VEHICLE	0	0
S	685998	CLUTCH COVERAGE	NO CLUTCH COVERAGE PROVIDED	0	0
S	888900	ADDITIONAL EXTENDED CHASSIS TOWING COVERAGE	BASE CHASSIS TOWING COVERAGE, 90 DAY/5000 MILE/8050 KILOMETER	0	0
S	874900	ADDITIONAL EXTENDED ENGINE TOWING COVERAGE	BASE VOLVO ENGINE TOWING COVERAGE, 24 MO/250K MILE	0	0
S	866011	REMOTE DIAGNOSTICS BUNDLE	REMOTE DIAGNOSTICS WITH REMOTE PROGRAMMING - 24 MONTHS	0	0
S	867001	UPTIME CENTER BUNDLE	ASIST AND VOLVO ACTION SERVICE - 24 MONTHS	0	0
S	862010	PREPAID API	WITHOUT PREPAID API	0	0

				WEIGHT (LB)	
ADDITIONAL ENGINEERING (Non Approved)			DESCRIPTION	FRONT	REAR
	CA	1		0	0

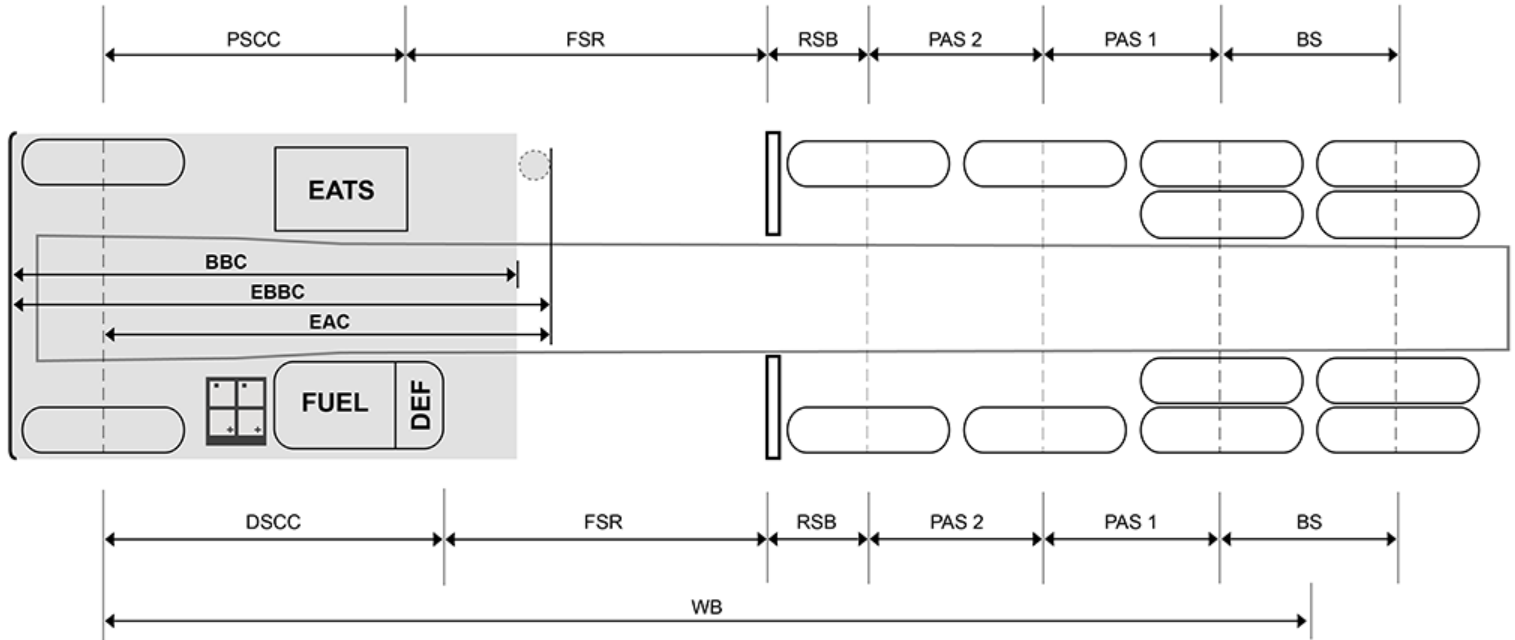
FRONT / REAR AXLE WEIGHTS (LB)				10078	10023
TOTAL WEIGHT (LB)				20100	

**VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY**

Description	Sales Code	Dwg Ref	Length	UOM
Front Frame Extension	N/A	FE	0.0	INCHES
Bumper to Front Axle	N/A	BA	29.1	INCHES
Eff. Bumper to Front Axle	N/A	N/A	29.1	INCHES
Wheelbase	N/A	WB	261.6	INCHES
Rear Overhang	N/A	OH	75.2	INCHES
Overall Length	N/A	OL	365.9	INCHES
Bumper to Back of Cab	N/A	BBC	113.6	INCHES
Eff. Bumper to Back of Cab	N/A	EBBC	113.6	INCHES
Eff. Cab to Rear Axle	N/A	ECA	177.1	INCHES
Eff. Front Axle to Back of Cab	N/A	EAC	84.5	INCHES
Eff. Cab to End of Frame	N/A	ECEF	252.3	INCHES
Unladen Frame Height	N/A	FH	42.4	INCHES
Cab Height	N/A	CH	74.3	INCHES
Overall Height	N/A	OVH	119.8	INCHES
Driver CG	N/A	DCG	64.5	INCHES
48" (1220MM) AHEAD OF FWD DRIVE AXLE	GYXGCX	PAS	48.0	INCHES
91" (2320MM) AHEAD OF FWD DRIVE AXLE	GZXNPX	2PAS	43.3	INCHES
54" BOGIE SPREAD (1370MM)	GWXDGX	BS	54.0	INCHES



VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY				
Description	Sales Code	Dwg Ref	Left Value(in)	Right Value(in)
Wheelbase	N/A	WB	261.6	261.6
Eff. Front Axle to Back of Cab	N/A	EAC	84.5	84.5
100 GALLON LEFT HAND FUEL TANK / NO RIGHT HAND DIESEL TANK PROVIDED	J8XEWX / J9XK1X	FTL	41.1	0.0
Bumper to Back of Cab	N/A	BBC	113.6	113.6
Eff. Bumper to Back of Cab	N/A	EBBC	113.6	113.6
LEFT HAND BATTERY BOX - 3 CAPACITY BEHIND FUEL TANK, DEF TANK MOUNTED TO LEFT HAND FUEL TANK (VHDF)	3XBACX	DSCC	104.3	N/A
INTEGRATED FORWARD MOUNTED DPF & SCR (VHDF) OR VERTICAL SCR (VNL)	3YBAAX	PSCC	N/A	87.0
Frame Space Front	N/A	FSF	-54.3	0.0
Frame Space Rear	N/A	FSR	0.0	30.3
2 HENDRICKSON COMPOSILITE SC 13K STEERABLE PUSHER,AUX WHL & TIRES SUBJECT TO HEND TIRE TO GRND GUIDE	335039	RSB	26.0	26.0
PAS	GYXGCX	PAS	48.0	48.0
HBS	GWXDGX	HBS	27.0	27.0



Top View image is intended for illustration purposes only and is not presented to scale. Wheelbase, Axle Spacing and After frame are not shown as specified, but are a representation. Customer Adaptation (CA) options and relocated components are not represented in these images. Most CA options impact the variation of the image, thus an image may not populate. Calculations are approximate to a tolerance of  $\pm 4$  inches due to component mounting variation. Certain chassis component options are NOT represented in the Top View image, such as, but not exclusive to, Front Frame Extensions, Fuel Water Separators, Air Dryers, PTOs, Fifth Wheels, Chassis Fairings, Toolboxes, Trailer Connections. For further information on these items and their respective locations on your specification, please refer to the data sheets associated with those items in the configurator.



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