



	MADE FROM	:	POST MORTEM AND NEW STANDARD
	QUOTE	:	Ref Job: 18813
	CUSTOMER	:	TREMCAR STOCK
	JOB	:	19555
	DELIVERY	:	DECEMBER 2018
APRIL 11, 2019	REVISION 1	:	1, 8, 12, 23, 28, 58, 61, 63, 71
MAY 13, 2019	REVISION 2	:	23
MAY 28, 2019	REVISION 3	:	12, 47

SPECIFICATIONS

- | | | | |
|--|-----------------------------|--|---|
| 1 | DIMENSIONS | LENGTH: 49' 9"
WIDTH: 102" | HEIGHT: 152"
ESTIMATED WEIGHT: 19,000 LB |
| ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES | | | |
| 2 | TYPE | TC 406 ALUMINUM QUAD AXLE SEMI-TRAILER | |
| 3 | SHAPE | ELLIPTICAL 84" X 101" | |
| 4 | PRODUCT(S) | PETROLEUM (CLASS I & CLASS II)
MAXIMUM LADING DENSITY: 1.87 LB/LITER (0.85 KG/LITER) | |
| 5 | REGULATION | TRANSPORT CANADA TC 406 SPECIFICATION IN ACCORDANCE WITH CSA B620 (CURRENT)
CANADIAN MOTOR VEHICLE SAFETY REGULATIONS (CMVSS)
PROVINCIAL HIGHWAY WEIGHT REGULATIONS
AREA OF OPERATION: ONTARIO, QUEBEC AND MARITIMES
SERVICE: PAVED ROADS
ONTARIO SPIF COMPLIANT: YES
MAWP: 3 PSIG
TEST TO: 5 PSIG
MAXIMUM TEMPERATURE: 122 °F (50 °C) | |
| 5A | TRACTOR | DESIGNED BASED ON TRACTOR SPECIFICATIONS
WHEEL BASE: 189 INCH
TANDEM TIRE SPREAD: 54 INCH
5TH WHEEL HEIGHT: 50 INCH TO PROVIDE 6" SLOPE TO REAR
FRONT AXLE WEIGHT: 9 500 LB
TANDEM WEIGHT: 7 800 LB | |
| BARREL | | | |
| 6 | COMPARTMENT(S) | 6 CAPACITY, FRONT TO REAR: 16,000 - 8,000 - 7,000 - 5,000 - 5,000 - 16,000 LITERS
+3% OVERAGE (MINIMUM 250 L) EACH COMPARTMENT | |
| 7 | CAPACITY | 57,000 LITERS | |
| 8 | INNER SHELL | ALUMINUM GRADE: 5454-H32
THICKNESS: 3/16", TOP AND BOTTOM 1/4"
EXTERNAL FINISH: MILL
WELD FINISH: W-1
LENGTH: 558" SEAM TO SEAM LENGTH | |
| 9 | HEADS | ALUMINUM GRADE: 5454-0
THICKNESS: 0.250"
EXTERNAL FINISH: MILL
WELD FINISH: W-1

DOUBLE OPPOSING HEADS BETWEEN EACH COMPARTMENT | |
| 10 | BAFFLES/DIVIDER | 5 1/4" DISHED & FLANGED SURGE BAFFLES
- 2 IN EACH 16,000L COMPARTMENT WITH CENTRED SIDE 18" PASS THROUGH
- 1 IN 8,000L COMPARTMENT WITH CENTRED 18" PASS THROUGH | |
| 12 | SUMP | 6 4" ALUMINUM DRAIN SUMP BETTS #SU25188AL
ON BELLY OF TANK AT REAR OF EACH COMPARTMENT
INSTALL SUMP THROUGH FOR #6 COMPARTMENT
6 SPLASH DEFLECTORS OVER SUMPS | |
| 13 | MANHOLE(S) | 6 20" BETTS (TIONA) PAF 406-98 OFFSET FILL MANHOLE (#PPVL820BXB) AND BUNA-N GASKET
ALUMINUM COLLAR BETTS #3176AE
LOCATION: ONE MANHOLE PER COMPARTMENT | |
| 14 | CLEAN OUTS | N/A | |
| 15 | LEVEL INDICATOR CONNECTIONS | 6 1/2" NPT HALF COUPLINGS INSTALLED IN THE BOTTOM OF EACH TANK
SENSORS INSTALLED IF PROVIDED FOR IN SECTION 28 OF THIS SPECIFICATION | |

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STRUCTURE

- 16 REINFORCING RINGS N/A BULKHEADS AND BAFFLES PROVIDE REINFORCEMENT TO CODE
- 17 SHELL SUBFRAME ALUMINUM CROSSMEMBERS, OUTRIGGERS AND FULL LENGTH SILLS

PIPING

- 20 TYPE OF CABINET NONE
- 21 PIPING MATERIAL:
 - ALUMINUM 4" SCH 10 PIPE ENDING WITH SCH 40 WHERE SLEEVE CLAMP FITTINGS ARE USED
 - SOFT-CORE PTFE (TEFLON) ENVELOPE GASKET FOR FLANGE FITTINGS
 - BUNA-N GASKET FOR SLEEVE CLAMP FITTINGS (VICTAULIC STYLE COUPLER)
 LAYOUT (SEE SECTION 23 FOR OUTLET FITTINGS):
 BOTTOM LOADING/DISCHARGE
 - DISCHARGE AREA LOCATED CURBSIDE AHEAD OF CHASSIS
 - PIPING FROM SUMPS TO DISCHARGE AREA, WITH OUTLETS SPACED 14" C/C, 36" ABOVE GROUND
 - NO PUMP OFF LINE
- 22 VALVE(S) 6 4" ALUMINUM INTERNAL AIR OPERATED EMERGENCY VALVE **BETTS #EV46911ALTS**
 WITH SHEAR SECTION AND FUSIBLE PLUG
 - VALVE CONTROLS WITH PRESSURE GAUGE INSTALLED IN CABINET NEAR DISCHARGE AREA
 WITH DOOR INTERFERENCE VALVE
 - EMERGENCY SHUTOFF SWITCH INSTALLED ON DRIVER'S SIDE FRONT FENDER
 6 4" **BAYCO** OPENABLE BOTTOM LOADING ADAPTORS **#5204NGC**
 WITH REMOVABLE HANDLE AND DUST CAPS **BAYCO #5000-24**
- 23 OUTLET FITTINGS BOTTOM LOADING/DISCHARGE:
 6 CAPACITY MARKER PLATES AND Y PRODUCT IDENTIFICATION TAGS
 2 6" X 4" MALE ANGLED REDUCERS WITH SIGHT GLASS **DIXON #4540SG**
 BRAKE INTERLOCK BAR ON THE OUTLETS
- 28 LEVEL INDICATOR 1 FLOTECH CHECKMATE 6 COMPARTMENT OVERFILL / RETAIN SYSTEM **#FT2816-12**
 WITH SWITCH INCLUDING:
 - 6 THERMO-OPTIC OVERFILL 2-WIRE SENSORS **#FT151-12**
 - 6 BOTTOM RETAIN 2-WIRE SENSORS **#FT152**
 - 1 MONITOR **#FT208** INSTALLED IN CURBSIDE CABINET
 - **#FT404-150** WIRING AND **#FT403** FITTINGS
 1 FLOTECH **#FT304** THERMISTOR SOCKET INSTALLED IN CURBSIDE CABINET
 1 **SCULLY GROUND BOLT #08560** INSTALLED ON CURBSIDE CABINET NEXT TO
 SOCKET WITH A **2-WAY SWITCH** TO BYPASS THE GROUNDHOG FOR QUEBEC AND ONTARIO
- 38 GROUNDING 3 ALUMINUM GROUNDING KNOBS IN TOP WALKWAY
 3 ALUMINUM GROUNDING KNOBS AT FRONT ON DRIVER'S SIDE AND CURBSIDE
 AND NEAR DISCHARGE AREA

TOP OF TANK

- 43 OVERTURN RAIL 1 FULL LENGTH TC 406 SPILLDAM AND ROLLOVER PROTECTION
 3" PIPE CONNECTIONS AT EACH MANHOLE FOR VAPOR RECOVERY
 2 ALUMINUM WATER DRAIN TUBING POSITIONED ALONG THE PERIMETER OF THE REAR HEAD
- 44 VENTING 6 BETTS VACUUM PRESSURE RELIEF VALVE INCLUDED IN MANHOLE COVER, WITH HOOD
- 45 VAPOR RECOVERY 6 3 1/2" BETTS ALUMINUM VAPOR VALVE **#AVF3.5ALTS**
 INSTALLED ON MANHOLES AND CONNECTED TO SPILLDAM RAIL
 INTERLOCKED WITH EMERGENCY VALVES AND OPEN FIRST
 1 4" ALUMINUM SCH10 PIPE FROM REAR CURBSIDE SPILLDAM VAPOR RAIL
 STRAIGHT DOWN REAR HEAD, ENDING:
 - CURBSIDE REAR WITH 4" VAPOUR ADAPTER **#VR4100** AND
 ORANGE NYLON VAPOUR CAP **#VR4050PLC** WITH CHAIN
 - AND PIPED TO DISCHARGE AREA WITH 4" VAPOUR ADAPTER **#VR4100** AND
 ORANGE NYLON VAPOUR CAP **#VR4050PLC** WITH CHAIN
 1 3 1/2" BETTS ALUMINUM VAPOR VALVE **#AVT3.5ALTS**
 ON VAPOR RECOVERY PIPE CURBSIDE
 INTERLOCKED WITH VAPOUR CONNECTION AND OPEN FIRST

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47	CATWALK		DRAMEX SHEET FULL LENGTH OF TANK ON SPILLDAM FLOOR
50	LADDER	1	ALUMINUM 1 1/4" TUBE WITH PLATFORM STEP BOLTED ON AT FRONT OF TANK
51	FALL PREVENTION	1	CABLE FROM REAR TO FRONT DRIVER'S SIDE USED AS GUIDE WIRE FOR OPERATOR
		1	CABLE FROM REAR TO FRONT CURBSIDE USED AS GUIDE WIRE FOR OPERATOR

SUSPENSION

52	SUSPENSION BOGIE		3/16" STAINLESS STEEL, TAPERED
53	TYPE OF SUSPENSION	3	INTRAAX AA250T, 25 000 LBS, 15" R.H. SPREAD: 72" - 72" - 101"
54	SUSPENSION - AIR LIFT	1	HENDRICKSON CONNEX-ST, 25 000 LBS, 15" R.H. INCLUDING UBL LIFT KIT
55	CONTROL SYSTEM	1	HEIGHT CONTROL HENDRICKSON #AKH 134-3 WITH COMBINATION VALVE AND LOAD SCALE KIT #AKLS-1006-4 WITH MANUAL DUMP LOCATED IN STAINLESS STEEL BOX DRIVER'S SIDE NEAR FRONT AXLE
		1	WHEEL MONITOR RM-60 REVERSE-A-MATIC SYSTEM FOR SSA LIFT CONTROL WITH 4-WAY FLASHER
56	AXLES	3	INCLUDED WITH SUSPENSION, 25 000 LBS, 77.5" TRACK, WELD-ON SPIDERS SAME INNER AND OUTER BEARINGS ABS BLOCKS AND DUST SHIELDS
		1	INCLUDED WITH CONNEX-ST SELF-STEER AXLE (SSA), 86" TRACK (20°), WELD-ON SPIDERS SAME INNER AND OUTER BEARINGS ABS BLOCKS AND DUST SHIELDS
57	OIL SEALS	8	INCLUDED WITH INTEGRATED SUSPENSIONS, SAE 75W-90 SYNTHETIC GEAR LUBE HXL3 EXTENDED WARRANTY ON ALL AXLES
58	BRAKES		LINING: HXS, HENDRICKSON 20K, 16.5" X 7" BRAKE CHAMBER: TSE 3030 SLACK ADJUSTERS: MERITOR AUTOMATIC 6" STROKE, 28 SPLINES ON INTRAAX BENDIX AUTOMATIC 6" STROKE, 28 SPLINES ON CONNEX-ST ROLL STABILITY SYSTEM: MERITOR-WABCO SYSTEM 4S/2M (SIDE BY SIDE) ABS SENSOR LOCATION: ON AXLES (FRONT TO REAR): 2-4 ABS INDICATOR LIGHT: DRIVER'S SIDE, AT STANDARD LOCATION AS PER REGULATION AIR TANK: ALUMINUM, WITH CABLE DRAIN
59	HUB & DRUM	8	HUB PILOTED, ADI DURA-LIGHT HUB, 10 STUDS WITH ABS TONE RINGS OUTBOARD MOUNTED CENTRIFUSE DRUM
60	RIMS	12	ALUMINUM DISC, HUB PILOTED, 10 HOLES, 8.25" X 22.5" LVL ONE™ CLEAN BUFF
		2	ALUMINUM DISC, HUB PILOTED, 10 HOLES, 12.25" X 22.5", 0.56" OFFSET LVL ONE™ CLEAN BUFF
61	TIRES	12	YOKOHAMA RY023 11R22.5 16 PLY RATING
		2	YOKOHAMA RY253 385/65R22.5 18 PLY RATING
62	HUBDOMETER	1	KM, ON REAR AXLE CURBSIDE
63	LANDING GEAR	1	JOST MAGNUM #AX150-G1-17 , SELF LUBRICATING, WITH 12" x 12" x 3.88" CUSHION FOOT CRANK ON DRIVER'S SIDE
64	TIRE CARRIER	N/A	
65	KING PIN PLATE	1	HEAVY DUTY 3/8" PLATE, BOLTED

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|----|---------|-------------|---|
| 67 | BUMPER | 1 | STAINLESS STEEL WITH
- REAR END ACCIDENT DAMAGE PROTECTION TO CODE
- REAR UNDERRIDE GUARD ACCORDING TO CMVSS/FMVSS |
| 70 | FENDERS | 1
1
1 | ALUMINUM ROLLED TYPE
PAIR FRONT FENDER WITH ALUMINIUM SUPPORTS
PAIR SSA FENDER WITH STAINLESS STEEL SUPPORTS
PAIR TRIDEM REAR FENDER WITH STAINLESS STEEL SUPPORTS |

ACCESSORIES

- | | | | |
|----|---------------------|-------------|---|
| 71 | SIDE CABINET | 1
1 | ALUMINUM 40" X 34" X 28" (W X H X D) UNDERSLUNG CABINET
ALUMINUM 48" X 34" X 28" (W X H X D) UNDERSLUNG CABINET
BOTH WITH FLAT TOP HINGED DOOR WITH INTEGRATED FORMED HANDLE AND AIR SPRINGS
LOCATION: BOTH ON CURBSIDE |
| 72 | HOSE CARRIER | 2
1
2 | ALUMINUM HOSE TUBE 7" DIA. X 21' LONG, WITH TWO DOOR AT FRONT
LOCATED CURBSIDE AT REAR, BOLTED
ALUMINUM HOSE TUBE 7" DIA. X 10' LONG, WITH DOOR AT REAR
LOCATED CURBSIDE AT FRONT, BOLTED
ALUMINUM HOSE TUBE 7" DIA. X 21' LONG, WITH TWO DOOR AT REAR
LOCATED DRIVER'S SIDE AT REAR, BOLTED |
| | | | NOTE: ALL HOSES TUBES WITH REAR DRAINS WITH VALVES |
| 73 | PLACARD HOLDERS | 4 | FLIP TYPE WITH 1202/1203/3475 PLACARD
LOCATED FRONT, REAR AND BOTH SIDES |
| 75 | NOSEBOX | 1 | HALDEX INTERLINE WITH ONE 7-WAY SAE RECEPTACLE AND ONE 6-WAY SPARE RECEPTACLE
WITH ONE CIRCUIT BREAKER PANEL (15 AMP)
LOCATED ON FRONT HEAD, LOWER QUADRANT, DRIVER'S SIDE |
| 76 | LIGHTS | 1
2
1 | GROTE SUPERNOVA® 4" 10-DIODE PATTERN LED FLANGE MOUNT LIGHTS #53252
ULTRA-BLUE-SEAL WIRING WITH MAINTENANCE FREE 7 YEAR WARRANTY
SIDE CENTER MARKER LIGHTS WIRED TO FLASH WITH TURN SIGNALS
NO BACK-UP LIGHT
HIGH MOUNTED OBLONG BRAKE LAMP AT REAR
WORK LIGHT(S) (ONE PER CABINET)
SWIVEL WORK FLOOD LAMP WITH INTEGRATED SWITCH AT DISCHARGE AREA
HIGH MOUNT STOP/TAIL LAMPS ON REAR HEAD AT 9 AND 3 O'CLOCK POSITIONS |
| 77 | LIGHT BOX | 2
2 | STAINLESS STEEL TRIPLE LIGHT MODEL
STAINLESS STEEL DOUBLE LIGHT, VERTICAL AT 3 & 9 O'CLOCK |
| 78 | REGISTRATION HOLDER | 1
1 | PS-1 ON LANDING GEAR FRAME ON DRIVER'S SIDE
ALUMINUM TUBE DOCUMENT HOLDER ON DRIVER'S SIDE FRONT FENDER |
| 79 | MUDFLAPS | | TREM CAR AT REAR OF EACH FENDER GROUP
WITH STAINLESS STEEL ANTI-SAIL BRACKETS |
| 81 | PAINT | | FRAME: URETHANE ENAMEL BLACK
(MILD STEEL PARTS ONLY)
RIMS: N/A |
| 82 | CALIBRATION | 6 | PAPER CHART, 1/4" INCREMENTS, LITRES PER VERTICAL INCH |
| 84 | MISCELLANEOUS | 1)
2) | CONTINUOUS CONSPICUITY TAPE ON SIDES, BUMPER AND REAR HEAD
20 LB FIRE EXTINGUISHER MOUNTED IN A POLYPROPYLENE BOX |

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