



TROXELL COMPANY, INC.

5940 E. HWY. 114

RHOME, TEXAS 76078

Specification Sheet

**9250GL (220bbl) DOT407, Aluminum, Double Conical, Single
Compartment, Spread Tandem Axle Crude, Oil Tank Trailer**

MODEL: TRX407AL-220-1-DC-2S-BPC

NV-1501 (VIN# 1T9TA4425FR719823)

GENERAL CONSTRUCTION

- | | | |
|--------------------------|--------------------------------|--|
| <input type="checkbox"/> | 1) Design | Two piece barrel, 5454-H32 aluminum alloy for shell. 5454-0 aluminum alloy for heads. Double conical with 10" drop to center, 50/50 split, 25 PSIG pressure rating and 10" of mercury vacuum, non-loading. 44' 2 1/2" Overall Length. |
| <input type="checkbox"/> | 2) Capacity | 220 barrels, 9,250 U.S. Gallons up to +3% tolerances. |
| <input type="checkbox"/> | 3) Commodity | Condensate, Crude Oil & Related DOT Approved Products |
| <input type="checkbox"/> | 4) Internal weld finish | Prepared for Internal liner, (Special clean outs required) |
| <input type="checkbox"/> | 5) External weld finish | As welded, smoke and discoloration removed |
| <input type="checkbox"/> | 6) Temperature | 180° F |
| <input type="checkbox"/> | 7) Code | DOT 407 |
| <input type="checkbox"/> | 8) Baffles | Four full circle 5454-0 aluminum alloys, sanitary flange welded both sides with 3" drains at 3:00, 9:00 and 12:00 o'clock. Bottom tunnel approximately 6-1/2" x 6-1/2" reinforced at center. Baffles designed to accept interior lining. |
| <input type="checkbox"/> | 9) Manhole | 1) 20" aluminum full opening with six cam lock hold downs one in each spill dam with cover's hinged to curbside away from ladder. Static cable from dome collar to emergency valve. |
| <input type="checkbox"/> | 10) Spill Dam | Spill dam located at approximately center of trailer with integral rollover protection, 1 1/2" drain hose both sides. |
| <input type="checkbox"/> | 11) Insulation | None |
| <input type="checkbox"/> | 12) Jacketing | None |
| | Thermometer | None |

VENTING & PIPING

- | | | |
|--------------------------|--|---|
| <input type="checkbox"/> | 13) Vent | 4" Girard Combination vent with Tef-O-Sil gasket 25# MAWP / 4" Hg Vacuum. |
| <input type="checkbox"/> | 14) Magnetic Vacuum Breaker (MVB) | See above |



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- 15) **Vapor Recovery** 3" Civacon T196SV-CV Crude Oil Vapor Vent in spill dam, actuated both by emergency valve operator and separate "Vent Only" operator for pressure bleed off, 3" line follows curvature of tank on curbside and "Tee's" to both sides and towards rear. Rear line extends to over rear light boxes and teed to each side. All lines end with 3" Male Flanged Adapter with cap. Install pressure gauge near operators showing internal tank pressure/ vacuum.

- 16) **Cleanouts** Four 3" aluminum sumps with blind flanges evenly spaced on top Center line of tank, outboard of baffles. Additionally install two (2) Roll Sumps (1) each side at 3 and 9 O'clock, blind flanged for use in rollover to remove product. **Note: Install Rochester Float Gauge in driverside roll sump.**

- 17) **Emergency Valve** One (1) 6" Tee air operated aluminum emergency valve reduced at front and rear by flange to 4" piping. Piping to extend forward and rearward with service butterfly valves each side of emergency valve. Operator located streetside piping near landing gear bolster.
Note: Emergency valve operator locks trailer brakes and powers Titan Gaging System.

- 18) **Piping and Valving** **Front:** Install gravity discharge cross between service valve and pump with outlets on each side. On curbside install 4" Butterfly Valve with flanged Male adapter & dust cap. Piping continues forward into pump inlet.
Rear: from service valve at rear continue piping rearward to tee forward of rear sub frame with 4" Butterfly Valve, flange x Male adapter each side with dust cap.
Operator located street side piping near landing gear bolster. (see additional notes at pump).
Sample Valves Install (2) 3/8" sample ports in piping with Brass Ball Valves, install one at roadside discharge near outlet and one rear of front gravity cross.
Pump **BearCat 600BMS-LH 4" HIGH VOLUME PUMP, dual relief valve, lip seal, coupled to Char-Lynn Hydraulic Motor, coupled with Love Joy coupling and Guard.** 1" Hydraulic High & Low Pressure lines run on curbside over front fender without interfering with fender. Pump mounted on bracket between landing legs with flexible hydraulic hoses connecting supply lines to pump. Pump includes Viton Seals with **Directional Valve** located roadside near landing gear. **NOTE:** Install pump discharge tee using aluminum pump flange with aluminum piping to each side ending with a 4" Butterfly valve each side of gravity discharge tee with male flanged adapter and dust caps. **Install One 4" aluminum 45 deg. Elbow off pump discharge outlet on Roadside only,**

- 19) **Gasket Material** Buna



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TANK ACCESSORIES

- 20) Ladder** Troxell custom heavy duty two piece split aluminum ladder mounted streetside near center to spill dam (bolted), allows discharge hose to remain attached to pump outlet and hose carrier without impeding use of ladder.
- 21) Grab handles** Located on transition platform step.
- 22) Walkway** Platform step as transition between ladder and spill dam
- 23) Fenders** Aluminum single contour, straight front for front fenders, and aluminum double radius rear fenders with "Bolt On" fender brackets.
- 24) Mud Flaps** Troxell rubber attached to separate brackets located at rear of front and rear fenders.
- 25) Hose Carrier(s)** 1) Single hose aluminum tray x 21' mounted roadside rear and (1) 8" x 21' hose tube with doors each end on curbside rear.
- 26) Hose Hook(s)** Swing Style (included only with pump option) at front top of tank to support jumper hoses from truck
- 27) Placard Holders** Aluminum plates with Slide In placard holders & 1267 vinyl placards, reachable from ground, front on street side fender bracket, rear centered on framing. Streetside and curbside located on center ring of tank.
- 28) Document Holder** Trucklite at landing gear frame curbside.
- 29) Seal Provisions** None
- 30) Marker Rod** None

SUSPENSION & FRAMING

- 31) Upper Coupler** Standard 5/16" steel upper coupler, adjustable.
- 32) Landing Gear** Heavy Duty Two Speed with Sand Shoes.
- 33) Suspension Framing** Heavy Duty Fabricated Spread-Axle Subframe at rear. *(Designed for 10' 1" spread &/ or closed 49" closed tandem and framing preset for front axle to be relocated forward to a 102" spacing from rear axle in future.)*
- 34) Bumper / Under-Ride** Heavy Duty Full Width, No under ride needed, if bumper is less than 12" from tires. Steel bumper to be full width.
- 35) Tow Hook** Heavy Duty installed on rear bumper integral with framing.
- 36) Cabinet(s)** **2) 26" X 26" X 48"** Aluminum with reinforced bottom and double swing doors each side mounted between spread axles.



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- 37) **Tire Carrier** None
- 38) **Suspension** Two (2) Intraax Air Ride suspensions grouped into closed 49" Tandem with ILAS auto-lift control with manual override. (*Front axle to be the Lift Axle*). *Preset axle mounts for moving front axle forward to create a 102" spread axle spacing ahead of rear axle.*
- 39) **Axles** Two (2) Hendrickson 23,000#, parallel spindle, 77 ½" track axles.
- 40) **Tires** 8) 8) 11R24.5 Steel Belted Radials
Spare tire None
- 41) **Wheels** 8) 8.25 x 24.5 Aluminum HP disc.

AIR & ELECTRICAL SYSTEMS

- 42) **Brakes**
 - Brake chambers** OEM on each axle rated for 20,000lbs.
OEM 3030
 - Automatic slack adjusters** OEM on each axle
 - Hubs/drums** Steel hub, with cast drum
 - Fastening method** 10 stud, hub-piloted
 - Oil seals** OEM
 - Dust shields** None
 - ABS Braking** 4S/2M system with amber indicator light located on front of streetside rear fender. No diagnostic plug
- 43) **Air & electrical**
 - Nose box** Low Mounted on roadside front head with circuit breakers, J-560 7 way and special 2 prong (centrifuge) plug.
 - Lights, type** Truck Lite LED rubber mount
Additional rear stop light
 - Other lights** Center marker and turn signal mounted on each side
 - Junction box** Mounted at rear of sub-frame
 - Work lights** (10) one each side at front frame, one each sidenear landing gear, one each side at rear frame facing rearward and one each corner of spill dam facing down and outward.
- 44) **Overfill System**
 - (1) Titan Liquid Level Gauge with LED Digital readout located near landing gear bolster ring. Install Hydraulic "By-Pass Solenoid" set as follows: Fill Level set to 7bbl (294GL) below compartment capacity & Pump Shutoff set to 5bbl (210GL) below compartment capacity. See: 17) Emergency Valve for Titan Activation Note!
 - Float Gauge** Install Rochester Float Gauges in special adapter flanges installed on roadside roll over sump.

FINISHES & OPTIONS

- 45) **Paint** Carbon Steel Parts Primed & Painted Troxell **Red.**
- 46) **Interior lining** Amercoat 240 Epoxy Phenolic
- 47) **Shovel holder** Included streetside just in front of suspension.



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- 48) Solvent Tank** Troxell Standard 3 gal. (2400-0002) installed over Driverside Toolbox and mounted behind hose tray with 1/4" Ball Valve Drain in bottom and 2" top mounted fill with dust cap.

- 49) Calibration** Increments –1/2"
Capacities – gallons & barrels

- 50) Conspicuity** Per FMVSS requirements at approximately 3:00 and 9:00 o' clock continuous on sides.

- 51) Decals**

Hm-183 test decals	Front Streetside on barrel.
Customer decals	None

- 52) Miscellaneous** Texas external visual safety inspection and decal (installed adjacent to data plate) Test paperwork shipped with trailer in toolbox.

Install Retractable Ground Reel on streetside back of front fender.

Install Fire Extinguisher in bracket near ladder on streetside.

L&K Transport 7100 Centrifuge installed in streetside toolbox.