



TROXELL COMPANY, INC.  
5940 E. HWY. 114  
RHOME, TEXAS 76078

## Specification Sheet

### **10,500GL (250bbbl) DOT407, Aluminum, Double Conical, Two Compartment "Equalized", Tri-Axle Crude Oil Tank Trailer**

**NV-1273**

**MODEL: TRX407AL-250-2-DC-3 VIN: 1T9TA4935DR719710**

#### VESSEL ASSEMBLY

- |                          |  |  |
|--------------------------|--|--|
| <input type="checkbox"/> | <b>1) Design</b>                         | 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.   |
| <input type="checkbox"/> | <b>2) Capacity</b>                       | 250 barrels, 10,500 U.S. Gallons up to +3% tolerances with two equalized compartments sharing a single venting system.   |
| <input type="checkbox"/> | <b>3) Commodity</b>                      | Condensate, Crude Oil & Related DOT Approved Products  |
| <input type="checkbox"/> | <b>4) Internal weld finish</b>           | Prepared for Internal liner, (Special clean outs required)   |
| <input type="checkbox"/> | <b>5) External weld finish</b>           | As welded, smoke and discoloration removed   |
| <input type="checkbox"/> | <b>6) Temperature</b>                    | 180° F   |
| <input type="checkbox"/> | <b>7) Code</b>                           | DOT 407  |
| <input type="checkbox"/> | <b>8) Baffles</b>                        | Four full circle 5454-0 aluminum alloy, 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"/> | <b>9) Insulation</b>                     | None   |
| <input type="checkbox"/> | <b>10) Jacketing</b>                     | None   |
| <input type="checkbox"/> | <b>11) Thermometer</b>                   | None   |
| <input type="checkbox"/> | <b>12) Vent</b>                          | 4" Girard Combination vent with Tef-O-Sil gasket 25# MAWP / 4" Hg Vacuum.  |
| <input type="checkbox"/> | <b>13) Magnetic vacuum breaker (mvb)</b> | See above  |
| <input type="checkbox"/> | <b>14) Vapor recovery</b>                | 3" Betts Wet or Dry air operated (Spring Close) butterfly valve as vapor vent in spilldam, 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 runs to rear where it "Tee's" to both sides, All lines end with 3" Male Flanged Adapter with cap. Install pressure gauge near operators showing internal tank pressure/ vacuum. |



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- 15) Clean outs** Four 3" aluminum sumps with blind flanges evenly spaced on top Center line of tank, outboard of baffles for cleanout. Additionally install four (4) Roll Sumps (2) each side at 3 and 9 O'clock in each compartment for use in case of rollover.
- 16) Emergency valve** (Two) 6", aluminum air operated emergency valve Tee's installed one in each compartment and reduced with flange to 4" piping. Piping to extend facing forward and rearward from each valve. Valves manifolded together with a 4" "Splitter" butterfly located between emergency valves. "Service" butterfly valves installed outboard of each emergency valve. Operator's located streetside piping near landing gear bolster.
- 17) Piping and valving** From each service valve install 4" aluminum piping to a gravity discharge tee at landing gear and front of rear subframe. Install a 4" Butterfly valve each side of gravity discharge tee with male flanged adapter and dust caps. See additional notes at Pump Piping.
- 18) Gasket Material** Buna
- 19) Hose hook** Swing Style (included with pump option only) at front top of tank.
- 20) Manhole** 2) 20" aluminum full opening with six cam lock hold downs one in each spill dam with cover's hinged to curbside away from ladder.
- 21) Spill dam** Common Spill dam located at approximately center of trailer with integral rollover protection, 1 1/2" drain hose both sides

### Tank Accessories

- 22) 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.
- 23) Grab handles** None
- 24) Walkway** Platform step as transition between ladder and spilldam with Grab Handles.
- 25) Fenders** Aluminum single contour, straight front for front fenders, all fender brackets to be bolt on.  
Aluminum individual single axle rear fenders installed consecutively at rear both sides with close out plates filling gaps between fenders and all brackets bolt on.
- 26) Mud flaps** Troxell rubber, front to attach to separate bracket behind front fenders, and to separate bracket behind rear axle fenders.
- 27) Cabinet** 1) 26" X 26" X 48" Aluminum with reinforced bottom and double swing doors streetside ahead of rear tridem.



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- 28) **Tire carrier** None
- 29) **Hose carrier** 1) Single hose aluminum tray x 20' mounted roadside rear and one 8" x 21' hose tube with doors both ends at curbside rear.
- 30) **Placard holders** Aluminum plates (customer to add placard holders), reachable from ground, front on street side fender bracket, rear located centered on rear Subframe. Streetside and curbside located on center ring of tank.
- 31) **Document holder** Trucklite at landing gear frame curbside
- 32) **Sealing provisions** None
- 33) **Marker rod** None
- 34) **Overfill system** (2) Titan Liquid Level Gauge with LED Digital readouts located in box visible though sealed door and mounted at landing gear bolster ring.

**Subframe & Running Gear**

- 35) **Upper coupler** Standard Troxell 5/16" steel upper coupler, bolted and adjustable.
- 36) **Landing gear** Heavy Duty Two Speed with Sand Shoes.
- 37) **Sub-frame at suspension** Heavy Duty Fabricated Tri Axle Subframe at rear.
- 38) **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.
- 39) **Suspension** Three (3) Intraax Air Ride suspensions grouped into Tridem with Rear Axle lift included (Manual lift included located near valve controls and Titan Gauge Boxes).
- 40) **Axles** Three (3) Hendrickson 23,000#, parallel spindle, 77 1/2" track axles
- 41) **Brakes**
  - Brake chambers** 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
  - Antilock braking system** 4S/2M system with amber indicator light located on front of streetside rear fender. No diagnostic plug
- 42) **Tires** 12) 11R24.5 Steel Belted Radials
  - Spare tire** None
- 43) **Wheels** 12) 8.25 x 24.5 Aluminum HP disc.



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**Miscellaneous**

- 44) Paint** Carbon Steel Parts Primed & Painted.
- 45) Air & electrical**
  - Nose box** Low Mounted on roadside front head with circuit breakers, 7 way and 2 prong (centrifuge) plug prewired to toolbox on curbside.
  - Lights, type** Truck Lite LED rubber mount
  - Other lights** Additional rear stop light  
Center marker and turn signal mounted on each side
  - Junction box** Mounted at landing gear
  - Work Lights** (2) One each side near landing gear facing rearward.
- 46) Conspicuity sides of trailer** Per FMVSS requirements at approximately 3:00 and 9:00 o'clock continuous on sides
- 47) Decals**
  - Hm-183 test decals** Front, streetside on barrel
  - Customer decals** None
- 48) Interior lining** Sherwin Williams "Sher-Glass" Epoxy Phenolic
- 49) Tow hook** Heavy Duty installed on rear bumper integral with framing
- 50) Shovel holder** Included streetside just in front of suspension
- 51) Calibration** Increments –1/2"  
Capacities – gallons & barrels
- 52) Product pump** Roper Model 3748MBHF Gear Pump driven by Charlyn 109-1101-006 Hydraulic Motor. 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 directional valve and pump. Pump includes Viton Seals with directional valve installed near roadside landing gear.  
**NOTE:** Install pump discharge tee using steel pump flange with aluminum piping to each side ending with a 4" Butterfly valve each side of discharge tee with male flanged adapter and dust caps. Note: Streetside pump discharge installed on 45° elbow pointing up and rearward facing hose tray.
- 53) Static line** One per manhole from Dome collar to emergency valve
- 54) Hubodometer** None