



Specification Sheet

Form Rev. 02-11-2013

2014 HEIL DOT407AL 9240GL, DOUBLE CONICAL, TANDEM AXLE, CRUDE OIL TRANSPORT WITH PUMP & CENTRIFUGE

NV1309 VIN: 5HTDL4527D7H45530

VESSEL

- 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
2) Capacity 220 barrels, 9240 U.S. Gallons up to +3% tolerance.
3) Commodity Crude products
4) Internal weld finish Prepared for Heil lining, (Special clean outs required)
5) External weld finish As welded, smoke and discoloration removed
6) Temperature 180° F
7) Code DOT 407
8) Baffles (4) 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.
9) Insulation None
10) Jacketing None
11) Thermometer None
12) Vent (1) One 4" Girard Combination vent with Tef-O-Sil gasket 25# MAWP / 4" Hg Vacuum with pressure gauge & spring return ball valve for emergency pressure relief.
13) Magnetic vacuum breaker (mvb) Included with combination vent, above.
14) Vapor recovery 3" Civacon air operated vapor vent in spill dam, actuated with emergency valve operator, 3" line follows curvature of tank. (3) Vapor outlets (1) c/s (1) s/s at center near discharge, (1) at the rear of the trailer curbside ending over rear fender facing curbside. All points end with aluminum male adapters and caps.
15) Clean outs (4) Four 3" aluminum sumps with blind flanges evenly spaced on top center line of tank, outboard of baffles.
(2) Two 3" aluminum sumps with blind flanges at 3 and 9 O'clock for roll over.



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- 16) **Emergency valve** (1) One Betts 6" 90 degree aluminum [Air operated](#) emergency valve facing forward, operator near streetside landing gear.
- 17) **Piping and valving** From emergency valve reduce down to 4" Sure Seal fig 500 butterfly valve with iron body, iron disc and buna seat, to a 4" Sch 40 aluminum line forward towards landing gear to a 4" aluminum cross. Curbside and street side of cross to have 4" Sure Seal fig 500 butterfly valve and iron body, iron disc and buna seat with TTMA flanges from flange on curbside straight to a 4" male adapter and cap on street side from flange to 4"x45 degree angled to rear to 4" Sure Seal fig 500 butterfly valve with iron body, iron disc and buna seat to female coupler with plug. Front of cross to have 4" Sure Seal fig 500 butterfly valve with iron body, iron disc and buna seat with TTMA flange to hose barb to feed pump inlet with Gates Longhorn style hose.
- 18) **Gasket Material** Cork/Buna
- 19) **Hose hook** Install Canadian style hose hook at top of front head off of ring as standard.
- 20) **Manhole** Heil 20" aluminum full opening with six cam lock hold downs Cover hinged to curbside away from ladder.
- 21) **Spill dam** Located at approximately center of trailer with rollover protection, 1-1/2" black drain hose both sides
- Tank attachments**
- 22) **Ladder** Aluminum mounted streetside center, bolted top and bottom
- 23) **Grab handles** None
- 24) **Walkway** Platform step as transition between ladder and spill dam
- 25) **Fenders** Aluminum single contour, straight front for front fenders, all fender brackets to be bolt on.

Aluminum double contour for rear fenders, all fender brackets to be bolt on with HD fender brackets and gussets.
- 26) **Mud flaps** Front and Rear, Heil, Anti-sail, Anti-Spray flaps.
- 27) **Cabinet** One (1) 36" x 18" x 18" aluminum cabinet with lockable door located street side above front fender to house EVO and Titan system. Insure cabinet is mounted with HD brackets and braces. One (1) 24"H x 24"D x 36"L aluminum mounted streetside forward of tandem to house centrifuge to include auxiliary light in cabinet with switch. Install 5 gallon bucket holder on front side of this cabinet.
- 28) **Tire carrier** None



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- 29) Hose carrier (2) 8" x 21' aluminum hose tubes located (1) curbside (1) streetside doors front only and hinged down.
- 30) Placard holders Aluminum plates with slide in placard holders, reachable from ground, front on street side upper quadrant front head, rear located lower quadrant of rear head. 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 Garnet 808P2 system with spill stop and pump bypass to include single external display mounted in cabinet on street side front fender..

If required, customer to specify readouts units: barrels or gallons
- Chassis and running gear**
- 35) Upper coupler 5/16" heavy duty steel upper coupler with offset pin adjustable in 1-1/2" increments.
- 36) Landing gear Jost model A-HEIL magnum 2-speed, sealed gear box with arctic grade grease, 70,000 lbs. rated lift capacity with 10" x 12" sand shoes and streetside crank.
- 37) Sub-frame at tandem Carbon steel, galvanized, huck-bolt
- 38) Bumper / under ride Carbon steel. No under ride needed, if bumper is less than 12" from tires. Steel bumper to be full width.
- 39) Suspension Hendrickson AAT250 air ride suspension & brake system, 71.5" track axle, parallel spindle, 25,000 lb. beam rating, 49" spacing, with single leveling valve and automatic dump valve. Galvanized hangers and cross channels.
- 40) Axles See above
- 41) Brakes
 - Brake chambers OEM 3030
 - Automatic slack adjusters OEM
 - Hubs/drums Steel hub and cast drum with 75W-90 oil
 - Fastening method 10 stud, hub-piloted
 - Oil seals OEM
 - Dust shields None
 - Antilock braking system Wabco 4S/2M system with amber light located in compliance with DOT regulations. No diagnostic plug
- 42) Tires Eight (8) Michelin XTE 11R-22.5



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- Spare tire None
- 43) Wheels Eight (8) Alcoa LVL One 8.25x22.5, 10 stud, hub piloted aluminum wheels with clean buff finish.
- Miscellaneous**
- 44) Paint Unless otherwise specified, steel parts will be painted DuPont Imron 5000 series gray
- 45) Air & electrical
 - Nose box Center of front head with circuit breakers, (1) J560 7-way and (1) ISO-3731 7-way plugs.
 - Lights, type Truck Lite LED flange mount
 - Other lights Additional rear stop light
 - Center marker and turn signal mounted on c/s and s/s.
 - LED sequential directional arrows located s/s & c/s rear of front Fenders
 - Four (4) Betts LED work lights. One mounted forward of discharge on curbside and street side angled back and down to illuminate discharge on both sides. Two mounted at rear on each side of frame rail pointing rearward and down to illuminate behind trailer. Switches for these work lights to be in cabinet on street side front fender.
- Junction box Mounted at rear of sub-frame
- 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 Sherglass Lining
- 49) Tow hook Installed on rear bumper
- 50) Shovel holder Included streetside just in front of tandem
- 51) Calibration Customer to specify upon order in:
Increments -1/3"
Capacities – liters, gallons, barrels and cubic meters
- 52) Product pump Install Roper pump on aluminum pump bracket at rear of landing legs with directional controls mounted off of landing gear frame on street side. Includes 1" stainless hydraulic lines to front of trailer with Dixon fittings. Outlet of pump to tee to street side and curbside with 4" aluminum lines ending with 4" wet-r-dry valves and 4" aluminum male adapters and caps.
- 53) Static line Dome collar to emergency valve
- 54) Hubodometer None



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- 55) Miscellaneous** One (1) LK Industries Transport 7100 centrifuge mounted in cabinet on street side forward of tandem.
- Parts and service manual CD is included
Texas external visual safety inspection and decal (installed adjacent to data plate) Test paperwork shipped with trailer.
- 56) Warranty** Heil's standard four year warranty - one year bumper to bumper coverage with some areas (e.g., barrel and frame) being extended on a pro-rated basis out as much as 4 years.
- Hendrickson's HVS axle system includes 3 year wheel end warranty and factory supplied chambers, slacks, steel hubs, and cast drums.
- Heil's value package includes Jost's 5 year maintenance free landing gear warranty.
- Heil's value package includes Dupont's prorated 3 year warranty on steel parts and prorated 4 year warranty on aluminum parts.