

# HALE

## TRAILER

BRAKE & WHEEL



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A011259  
VIN: 75518

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**800-232-6535** \*FINANCING AVAILABLE

## Standard Petroleum Trailer

### Specification Sheet

#### A. VESSEL

- Material** Aluminum - 5454 alloy.
  - Top** .182 front, .194 center, .182 rear. (All gauges nominal).
  - Sides** .182 (nominal).
  - Bottom** \*Bottom: .250 (nominal) front and .204 (nominal) rear.
- Shell Finish Polishing** Mill finish bulk trailer sheet.
- Shape** Elliptical, Double Taper, 50-50 Split
- D.O.T. Spec/ Vapor Testing** DOT-406 AL. Tested at 5 PSI, rated at 3 PSI.  
Tested and certified to EPA Method 27-CA Air Resources Board standards and manholes sealed.
- Capacity** 9200 Gallons, plus 3% (minimum of 9476 gal. shell full), 60 gallons is the minimum outage for any size compartment.
- Compartments** 5 Compartments, front to rear - 2500/1500/1000/1700/2500
- Compartment/ End Heads** \*Compartment heads: .204 (nominal) stiffened and shoed.  
End heads: .204 (nominal) stiffened and shoed.  
All single heads between compartments.
- Surge Heads** Dished and flanged surgeheads with one (1) 20" manway center, two (2) 12" drain holes 6 and 12 o'clock, and two (2) 3" emergency drain holes @ 3 and 9 o'clock.  
Surge heads - kingpin: .204 (nominal) stiffened and shoed.  
\*Surge heads - tandem: .204 (nominal) stiffened and shoed.  
\*Surge heads - middle of tank: .204 (nominal) unstiffened.
- Flashing** Full length, double leg extrusions. Dams front and rear with transverse overturn protection rails as required by code.

- 10. Documentation** Computer generated calibration charts 1/2" increments. HM-183 documentation w/markings on front head. Vapor test decal with documentation. Unit hydrostatically tested.
- 11. Temp Rating** 180 Degrees F. maximum operating temperature.
- 12. Misc. Vessel** 1 Products carried: biodiesel and ethanol  
1 Product carried: transformer oil and jet fuel

## B. TANK FITTINGS AND PIPING

- 1. Manholes** One (1) 16" diameter Tiena-Betts Strongback style, zinc plated steel, 10" fill vapor recovery manhole per compartment. Buna N gaskets.
- 2. Capacity Indicators** 1 No indicator rod.  
1 No discs.  
One (1) 1/8" stainless steel static ground wire per compartment.
- 3. Vents** DOT-406 venting in manhole.
- 4. Cleanouts/ Fill Covers** 0 None.
- 5. Vapor Collect Vent** "One 3" Betts #AV46855ALTS air operated inward opening sequential vent in each manhole cover.
- 6. Vapor Collect Hood** Cast aluminum vapor hood connected to curbside flashing rail by 3' hose.
- 7. Vapor Collect Piping** 4" Aluminum internal vapor line from curbside flashing rail, through mid-tank to vapor outlet(s). Line to continue to the following locations:  
One (1) curbside outlet 15" to rear of last discharge valve. (4" outlet).
- 8. Vapor Collect Fittinas** One (1) 4" adapter and dust cap for outlet curbside rear of discharge. (Eight bolt TTMA flange mounted).
- 9. Additional Venting** None.
- 10. Emergency Valve** "One (1) Knappco "MaxAir" 5" x 4" Hi Flo, aluminum body, air operated internal cylinder, & Tef-O-Sil seals, per compartment. Splash shield-vortex breaker over each EV. Where appropriate, a straight through style valve may be used instead of an elbow style to streamline piping.
- 11. Operator System** Air control kit mounted in EVO cabinet.  
Air control kit. Bendix TW-1 air valves with pressure gauge and manual valve to open/auto close by cabinet door (mark clearly). Control switches to operate in an up-down motion. Pressure gauge to be below #1 cpt switch. Clearly mark **the valves OPEN and CLOSED.**  
One emergency trip located streetside front of tank.

- |                                 |   |
|---------------------------------|---|
| 12. <b>Piping/Piping Gasket</b> | 4" Schedule #10 aluminum discharge piping with large radius formed sweeps to curbside of tank, located per API standards.<br><b>NOTE:</b> All discharge lines to pitch toward center of tank, with no level (or flat) locations in any lines.<br>Viton gaskets on flanged piping connections.<br>Nitrile grooved coupling gasket at emergency valves. |
| 13. <b>Discharge Valve</b>      | *Delete openable adapters- NO OPENABLES or NON OPENABLES.<br>*4" Betts aluminum Wet-R-Dri valve includes gaskets and flanges.<br><b>NOTES:</b><br>- All Wet-R-Dri valves to have grease zerks.<br>- End of lines to be angled down (valve, adapter and cap).  |
| 14. <b>Discharge Accessory</b>  | (5) *4" X 3" eccentric reducer (flange / adapter) with adapter and dust cap.  |
| 15. <b>Streetside Discharge</b> | 0 None.   |
| 16. <b>Pump Off-Line</b>        | None.   |
| 17. <b>Overfill Prevention</b>  | *Delete Controller.<br>*Delete probes.  |
| 18. <b>Brake Interlock</b>      | Safety interference bar with lock down pin handle over discharge valves and vapor outlet(s). Activates one (1) brake interlock valve. Bar to set brakes and open vapor vents.   |
| 19. <b>Overfill Interlock</b>   | 0 None.   |
| 20. <b>Misc.</b>                | 0 None.   |

**C. ACCESSORIES**

- |                         |  |
|-------------------------|--|
| 1. <b>Ladder</b>        | *Front aluminum ladder, center of front head, serrated rungs and platform top step.  |
| 2. <b>Walkway</b>       | Adhesive backed, skid-resistant tape between flashing rails.<br>*Internal through tank drains near rear. Run wiring through the rear drain.  |
| 3. <b>Hose Carriers</b> | (3) *7" x 21' aluminum hose tube(s) mounted curbside rear. Reinforced for extended wear. Mounted in a pyramid style. Doors at front and rear.<br>(2) *7" x 21' aluminum hose tube(s) mounted streetside rear. Reinforced for extended wear. Mounted side by side. Doors at front and rear. |
| 4. <b>Stick Tube</b>    | 0 None.  |

- 5. Cabinet/Other Acc.** 16"W x 24"H x 20"D aluminum, EVO cabinet, single door, and stainless steel hinge, mounted curbside in front of piping.  
 \*33"W x 30"H x 28"D aluminum, 1 door, D-ring latch and stainless steel hinge, mounted curbside in front of rungear frame.  
 \*Waste Oil Tank (Part# 235-3622) between rear cabinet and tandem, per drawing on 9/10/09. 3" Fill pipe with a 3" male camlock and cap. Drain to be 2" with 2" ball valve, 2" camlock and cap.
- 6. Splash Guard** Front and rear, HEIL, anti-sail, anti-spray flaps.
- 7. Fenders** 2 Single contour front fenders.  
 2 Double contour rear fenders.
- 8. Placards\ Doc. Holders** 1 \*Betts #PS-1 certificate holder.  
 0 None.
- 9. Lights** 12 Volt Truck Lite flange mount LED lamp system complying to FMVSS with conspicuity markings each side and rear. Marker lights at rear top flashing rail to be recessed in flashing rail.  
 \*Additional pair of lights added to the rear light box, with additional light being a red brake / tail.  
**NOTE:** Lights to be from outside to inside, red, AMBER (directional), red. Combination mid-tank clearance and turn signals, one each side. One oval third stop light, located rear center of trailer.
- 1 \*LED sequential turn signal in angled aluminum housing mounted on rear of front fender, curbside.  
 1 \*LED sequential turn signal in angled aluminum housing mounted on rear of front fender, streetside.  
 2 \*Dual LED stop/tail (red) and turn/tail (red) "high-mounted" L.E.D. lights mounted in weather tight boxes. Located near outside radius of tank on the horizontal centerline of rear head, one (1) set each side at 3 and 9 o'clock.  
**NOTE:** Upper light to be stop/tail and lower light to be turn/tail.
- 10. Wiring** One (1) 7 way ATA (#SAE J560) connector in nose box. Located at lower streetside front head.  
 Two (2) aluminum light boxes at rear, one each side of tank.  
 12 Volt system, 7 wire, molded conduit throughout, all connections made in junction boxes.
- 11. Misc. Acc.** 0 None.

**D. CHASSIS**

- 1. Upper Fifth Wheel** Hi-tensile steel, bolted and adjustable with 2" forged kingpin.
- 2. Skid Plate** Aluminum skid plate.

- 3. Landing Legs** Jost 2-speed, A-HEIL Magnum, 62,500# lift capacity with 10in x 12in sand shoes and streetside crank.  
\*Heavy duty landing leg brace kit, includes additional back bracing as well as lateral bracing between legs.
- 4. suspension** \*Hendrickson Intraax air ride, narrow hanger, parallel axle, and brake system AANT 23K, 77.5" track, 23,000# beam rating, 49" axle spacing, with single leveling valve. Heil R2R ("Ready-to-Run") Value Package - Includes Hendrickson's Five-Year wheel end warranty and factory supplied chambers, slacks, preset hubs, and drums.  
  
\*Manual dump valve system with manual valve mounted in protective box. Manual dump to control both axles, locate inside EVO cabinet, when door is closed, suspension is "re-aired" (to prevent moving with empty bags).
- 5. Suspension Frame** Aluminum suspension subframe. Suspension Huck riveted to subframe with electrolysis barrier.  
\*102 Inch wide stance kit, with 44 inch framing width at subframe.  
Aluminum 0.0.T. compliance bumper per FMVSS223, wheels back exemption. Underride if required by suspension location.  
\*Rear close out panel. Trims out rear of trailer between frame rails, bolts on for future access to junction boxes and other components. Brite (polished) finish to be used.
- 6. Brake System** Aluminum tank air system meeting FMVSS 121 requirements.  
Haldex TRS 4S-2M ABS system, (4 sensor/2 modulator) with onboard monitor.  
Haldex TRS Roll stability system.  
Philips "Quick Release" gladhand on service line.  
Constant power is standard on auxiliary (blue) center pin of SAE J560 7-way.  
16.5" x 7" (quick change) S-cam type brake shoes - Heil's R2R Package includes extended service brake shoes (Premium ABEX 30/30-197 with 5/8" thick brake shoes).
- 7. Brake Chamber** OEM type 30-30 parking-emergency spring brake - Heil's R2R Package includes Haldex Life Seal (long stroke) Brake Chambers.
- 8. Brake Lining** OEM brake lining.
- 9. Slack Adjuster** OEM (automatic) slack adjuster - Heil's R2R Package includes Haldex 5.5" automatic slack adjusters with grease fittings.
- 10. Axles** 2 Integral with air ride.
- 11. Oil Seals** Preset bearings with Premium oil seals and visible hub caps for Heil's R2R Package.
- 12. Paint** Silver metallic Imron Series 5000 on steel parts only -#N0217H.

13. **Chassis Accessories** 1 \*Hendrickson "TireMaax" tire inflation system - CP" (Constant Pressure) HEIL TRAILER INTERNATIONAL SETS AIR PRESSURE ON ALL TIRE INFLATION SYSTEMS FOR MAXIMUM PAYLOAD. (IF YOU PREFER THE OPERATING PRESSURE TO BE SET DIFFERENTLY THAN THE PRESCRIBED **MAXIMUM**, PLEASE INDICATE THE SETTING DESIRED IN PSI).

14. **Misc. Chassis** None.

## **E HUBS AND DRUMS**

1. **Hubs** 4 10 Stud, "Hub Pilot" (single nut mount), aluminum hub for outboard drum (parallel spindle) (ConMet Preset dual aluminum wheel - stud length 33mm, two piece flanged wheel nuts)

Hub lubrication - 75W-90 synthetic gear oil wheel end lubricant (Premium visible hub caps).

2. **Drums** 4 Centrifuse - outboard mount brake drums (16.5" x 7").

## **F. WHEELS**

1. **Wheels** 4 Wide base 10 Stud (Hub pilot - single nut mount) aluminum 22.5 x 14.0 wheels.

4 \*Polish external face of outside wheels and add Dura-Bright Coating.

## **G. TIRES**

1. **Tires** 4 Michelin Super Single X-One "XTE", 20-Ply, 445-50R22.5 radial tires.

### **DISCLAIMER**

Specifications are for the equipment at the time it was produced and may not accurately reflect its current condition. Photographs are the representative of the subject equipment but may not be identical. Equipment availability, prices and specifications are subject to change without notice.