

# HALE

## TRAILER

### BRAKE & WHEEL



A014139-A014141  
VIN: 8302-8304

#### SALES | RENTALS | PARTS | SERVICE

|                 |              |                   |              |
|-----------------|--------------|-------------------|--------------|
| Allentown, PA:  | 800-383-8894 | Jacksonville, FL: | 800-828-3055 |
| Baltimore, MD:  | 888-601-7500 | Little Rock, AR:  | 833-424-8944 |
| Boston, MA:     | 800-854-5310 | Portland, ME:     | 800-325-4253 |
| Concord, NC:    | 800-438-2250 | Richmond, VA:     | 866-839-3495 |
| Delmar, DE:     | 866-486-1400 | Scranton, PA:     | 800-569-1400 |
| Des Moines, IA: | 888-673-5011 | Springfield, MA:  | 800-854-5306 |
| Elkton, MD:     | 800-544-7127 | Voorhees, NJ:     | 866-315-0235 |

HaleTrailer.com | @haletrailer



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

| A General   |                                                                                                   |                                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1           | Trailer Type                                                                                      | Aluminum                                                                                                                                              |
| 2           | Code                                                                                              | DOT-406                                                                                                                                               |
| 3           | Overall Length in Feet                                                                            | 45                                                                                                                                                    |
| 4           | Shape                                                                                             | <b>Double Taper Elliptical with Slope to Center</b>                                                                                                   |
| 5           | Operating Pressure                                                                                | 3.3 PSI with 5 PSI Test Pressure                                                                                                                      |
| 6           | Max. Product Density                                                                              | 7.5 lbs./ U.S. Gallon                                                                                                                                 |
| 7           | Max. Loading Temp.                                                                                | 150° F max. Operating Temperature                                                                                                                     |
| 8           | Product(s)                                                                                        | Refined Fuels, Gasoline, Diesel, and Etc.                                                                                                             |
| 9           | Warranty                                                                                          | Standard Three (3) Year Limited Warranty                                                                                                              |
| 10          | Fifth Wheel Height                                                                                | Standard 49"                                                                                                                                          |
| 11          | Additional Regulation                                                                             | None-Optional                                                                                                                                         |
| 12          | Wheelbase                                                                                         | Engineering to Design to Optimize Payload                                                                                                             |
| 13          | Road Design Application                                                                           | Designed for on-road use only                                                                                                                         |
| B Barrel    |                                                                                                   |                                                                                                                                                       |
| 1           | Compartment(s)                                                                                    | <b>Four (4) compartments</b><br><b>3500//2300//1100//2600</b>                                                                                         |
|             | <b>Note: MAC LTT recommends at least one set of double bulkheads to avoid mixture of products</b> |                                                                                                                                                       |
| 2           | Capacity                                                                                          | <b>9,500 Gallons +3% Overage in Each Compartment with 60 Gallon Minimum Overage.</b>                                                                  |
| 3           | Baffles                                                                                           | 0.25" Load Bearing & 0.19" Non-Load Bearing 5454 OT Aluminum with large center hole, 3" holes at 9, 12, & 3 o'clock positions and Bottom Drain Tunnel |
| 4           | Shell                                                                                             | Two Section Aluminum 5454-H32 Barrel<br>0.205" Bottom, 0.179" Top and Sides                                                                           |
| 4a          | Shell Finish                                                                                      | Mechanical Buffed Sides with Enhanced Finished Top and Bottom                                                                                         |
| 5           | End Heads                                                                                         | 0.249" Nominal 5454 0 Temper AL Flanged & Dished Heads                                                                                                |
| 5a          | Head Finish                                                                                       | Polished Finish (Standard)                                                                                                                            |
| 6           | Bulkheads                                                                                         | <b>Double 0.19" Bulkheads Nominal 5454 AL Flanged &amp; Dished Heads-Mill Finish</b>                                                                  |
| 7           | Manway(s)                                                                                         | <b>One (1) 20" Diameter with 10" offset fill manhole per compartment.</b>                                                                             |
| 8           | Weld Finish                                                                                       | W-0 Inside and Outside - Free of Weld Spatter and Weld Smoke                                                                                          |
| 11          | Insulation                                                                                        | None-Optional                                                                                                                                         |
| 12          | Jacketing                                                                                         | None-Optional                                                                                                                                         |
| 13          | Underlayment                                                                                      | N/A                                                                                                                                                   |
| 14          | Thermometer                                                                                       | None-Optional                                                                                                                                         |
| C Structure |                                                                                                   |                                                                                                                                                       |
| 1           | Reinforcing Rings                                                                                 | None - Smooth Exterior with Internal Baffles                                                                                                          |
| 2           | Frame                                                                                             | Extruded Aluminum Full Length Frame Design                                                                                                            |
| 3           | Barrel Supports                                                                                   | Aluminum Outriggers and Crossmembers at Load Bearing Areas                                                                                            |
| 4           | Overturn Protection                                                                               | DOT-406 Aluminum "V" Extrusion on Top Both Curbside and Roadside. Curbside Rail Doubles for Vapor. Dam Plates at Each End with 1/2" Coupler and Plug  |
| 5           | Overturn Drain(s)                                                                                 | <b>Walkway Drain through Rear Ladder Rails</b>                                                                                                        |

| D Running Gear            |                       |                                                                                                                                                                                                                    |
|---------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                         | Suspension            | Hendrickson Intraxx AANT23K, 23,000 lb.                                                                                                                                                                            |
| 1a                        | Axle Spacing (inches) | 49"                                                                                                                                                                                                                |
| 1b                        | ZMD Ride Bags         | None-Optional                                                                                                                                                                                                      |
| 2                         | Axles                 | 71 1/2" Track with 5.75" diameter; HP Spindles with Same Inner and Outer Bearings.                                                                                                                                 |
| 3                         | Number of Axles       | Two (2)                                                                                                                                                                                                            |
| 4                         | Lift Axle(s)          | <b>Install Auto Sensing UBL Lift Kit on Front Axle with Toggle Override in Cabinet</b>                                                                                                                             |
| 4a                        | Ride Height Control   | Standard Hendrickson Height Control Valve                                                                                                                                                                          |
| 5                         | Hub(s)                | <b>Hendrickson MAXX22T Disc Brakes include DuraLite Hubs</b>                                                                                                                                                       |
| 6                         | Drum(s)               | <b>N/A</b>                                                                                                                                                                                                         |
| 7                         | Dump Valve            | Push/Pull Valve with Auto Reset mounted in Control Cabinet                                                                                                                                                         |
| 8                         | Brakes/Brake Chambers | <b>Hendrickson MAXX22T Disc Brakes with Wabco 18/24 Brake Chambers</b>                                                                                                                                             |
| 9                         | Dust Shields          | <b>Sealed Dust Shield (Standard Disc Brakes)</b>                                                                                                                                                                   |
| 10                        | Slack Adjusters       | <b>N/A - Integral with Disc Brake Option</b>                                                                                                                                                                       |
| 11                        | Warranty              | <b>Hendrickson Extended Life System "HXL7" with Federal Mogul Hub Seals</b>                                                                                                                                        |
| 12                        | Gladhands             | Phillips or Equivalent                                                                                                                                                                                             |
| 13                        | ABS                   | Wabco 4S/2M System Wired to Blue Wire with Rear Malfunction Warning Light                                                                                                                                          |
| 14                        | Roll Stability System | ABS with Roll Stability System                                                                                                                                                                                     |
| 14a                       | Diagnostic Cable      | None-Optional                                                                                                                                                                                                      |
| 15                        | Air System            | Aluminum Air Tanks                                                                                                                                                                                                 |
| 16                        | Tank Drain/Dryer      | <b>Cable Drains on each Reservoir with Loop pull run to Roadside</b>                                                                                                                                               |
| 17                        | Suspension Frame      | Aluminum                                                                                                                                                                                                           |
| 18                        | DOT PHMSA Bumper      | One (1) Aluminum rectangular tube, per PHMSA specifications                                                                                                                                                        |
| 19                        | Bumper Overlay        | Full width Aluminum Buffed Cosmetic Bumper Overlay.                                                                                                                                                                |
| 20                        | DOT NHTSA Bumper      | None when DOT 12" Wheels Back Exemption Applies                                                                                                                                                                    |
| 21                        | Rear Closeout         | <b>Custom Illuminated Cut-out Closeout - Customer to supply Vector Image of Logo/Lettering</b>                                                                                                                     |
| E Tires/Wheels            |                       |                                                                                                                                                                                                                    |
| 1                         | Wheels                | Accuride Accu-Lite with Extra Polish                                                                                                                                                                               |
| 2                         | Tires                 | Goodyear Marathon RSS 11R22.5 16 Ply                                                                                                                                                                               |
| 3                         | Number of Tires       | Eight (8)                                                                                                                                                                                                          |
| 4                         | Tire Inflation System | <b>Axles Prepped for Hendrickson Tiremaax Pro System</b>                                                                                                                                                           |
| 5                         | Hubodometer           | None-Optional                                                                                                                                                                                                      |
| 6                         | Load Gauge            | None-Optional                                                                                                                                                                                                      |
| F Fenders                 |                       |                                                                                                                                                                                                                    |
| 1                         | Fenders-Front         | Roadside Aluminum Contour Fender. Hose Tray on Curbside Doubles as Fender                                                                                                                                          |
| 1a                        | Closure Plate         | None-Optional                                                                                                                                                                                                      |
| 2                         | Fenders-Rear          | Roadside Aluminum Contour Fender. Hose Tray on Curbside Doubles as Fender.                                                                                                                                         |
| 3                         | Mudflaps              | MAC LTT Mudflaps on Rear of Fenders and Front Curbside of Rear Tires                                                                                                                                               |
| 3a                        | Anti-Sail             | Standard MAC LTT Fabricated Anti-Sails installed where necessary                                                                                                                                                   |
| 4                         | Spray Guard           | None-Optional                                                                                                                                                                                                      |
| G Landing Gear            |                       |                                                                                                                                                                                                                    |
| 1                         | Landing Gear          | Jost AX150 Alumilight Landing Gear                                                                                                                                                                                 |
| 2                         | Crank Location        | Roadside                                                                                                                                                                                                           |
| H Upper Fifth Wheel       |                       |                                                                                                                                                                                                                    |
| 1                         | King Pin Plate        | 5/16" Upper Plate with Hubbed Kingpin.                                                                                                                                                                             |
| 2                         | Pick-Up-Plate         | Aluminum Pick-Up-Plate Installed if necessary                                                                                                                                                                      |
| I Ladder/Platform/Walkway |                       |                                                                                                                                                                                                                    |
| 1                         | Ladder(s)             | Front Bolt-On Aluminum at Center of Head. Rails to have Rolled Radius at Top of Ladder and Top Deck plate Step                                                                                                     |
| 2                         | Safety Hand Rails     | None-Optional                                                                                                                                                                                                      |
| 3                         | Top Walkway           | Non-Skid Tape Between Top Vapor Rails                                                                                                                                                                              |
| 4                         | Fall Protection       | None-Optional                                                                                                                                                                                                      |
| J Cabinet(s) & Components |                       |                                                                                                                                                                                                                    |
| 1                         | Tool Cabinet(s)       | One (1) Aluminum Cabinet, 48" Wide x 30" High x 27" Deep with Two Aluminum Side Hinged Doors. Mounted curbside forward of suspension.<br><b>*Install MAC preferred Shelving and Partitions for Petroleum Units</b> |
| 2                         | EVO Cabinet(s)        | One (1) 30" High Single Door Box with Overfill System and Emergency Valve Controls mounted at Front flush with top of Curbside Equipment Cabinet.                                                                  |
| K Hose Carrier(s)         |                       |                                                                                                                                                                                                                    |
| 1                         | Hose Carrier(s)       | One (1) 3.5" x 22"W x Full Length Aluminum Extruded Tray functions as Curbside fenders. Includes drain at rear and tarp straps to retain hoses.                                                                    |
| 2                         | Trough Cover(s)       | None-Optional                                                                                                                                                                                                      |
| 3                         | Gauge Stick           | 16 Foot Gauge Stick and Holder on Curbside at Rear with Tension Pin at Front                                                                                                                                       |

| L Venting & Vapor Recovery System |                          |                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                 | Relief Vent(s)           | One (1) 10" Pressure/Vacuum Relief Valve with Set Pressure at 3.63 PSI Installed in Each Manhole Cover.<br>One (1) BETTS #3686-AL Vent in the Vapor Line Under the Belly of the Tank.                                                                                                                                                     |
| 3                                 | Discharge Vent           | Inward opening Sequential Vent with Viton seals in each manhole cover.                                                                                                                                                                                                                                                                    |
| 4                                 | Recovery Piping          | Vents connected to nipples in curbside flashing rail with 3½" I.D. hose. Internal Vapor Pipe Through Tank with connections at the following locations:<br>(1) 4" outlet Curbside 15" to rear of last discharge valves<br>(1) 4" outlet to extreme rear facing Curbside sloped down 15 degree                                              |
| 5                                 | Adapter & Cap            | Vapor outlet(s) equipped with 4" flanged poppeted vapor adapter & 4" orange cap.                                                                                                                                                                                                                                                          |
| 6                                 | Vapor Drain              | None-Optional                                                                                                                                                                                                                                                                                                                             |
| N Valving/Piping/Hose             |                          |                                                                                                                                                                                                                                                                                                                                           |
| 1                                 | Outlet(s)                | One (1) 4" Aluminum Drain Pocket at Bottom of each compartment                                                                                                                                                                                                                                                                            |
| 2                                 | Splash Deflector         | Bolt-on Splash Deflector above each Emergency Valve                                                                                                                                                                                                                                                                                       |
| 3                                 | Extra Drain Troughs      | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 4                                 | Equipment Warranty       | <b>Civacon System V (5-year Warranty Package)</b>                                                                                                                                                                                                                                                                                         |
| 5                                 | Discharge Valve(s)       | Elbow or Straight Air Operated Emergency Valves with Flanged Outlet and AL Body                                                                                                                                                                                                                                                           |
| 6                                 | Dicharge Controls        | Installed in EVO Cabinet with Air Tank Pressure Gauge                                                                                                                                                                                                                                                                                     |
| 7                                 | Emergency Valve Closure  | Emergency Closure located at Front Head Roadside                                                                                                                                                                                                                                                                                          |
| 8                                 | Piping                   | 4" Sch 10 Aluminum discharge piping with formed long radius sweeps from Emergency Valves to Curbside of tank, per API standards.                                                                                                                                                                                                          |
| 9                                 | Manifold                 | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 10                                | Front Pump-off Line      | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 11                                | Outlet Valve(s)          | API Valves with Aluminum Handle and Viton seals per compartment.                                                                                                                                                                                                                                                                          |
| 12                                | Sight Glass              | <b>Jikoh JDG-105 "Ethanol Resistant" Sight Glass behind each API Valve</b>                                                                                                                                                                                                                                                                |
| 13                                | Adapter(s)/Cap(s)        | 4" Aluminum Male Gravity Drop Adapter with 4" Aluminum Dust Cap                                                                                                                                                                                                                                                                           |
| 14                                | Secondary Discharge(s)   | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 15                                | Security Seal Provisions | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 16                                | Product Indicators       | 8-sided commodity tags on bracket over each API valve with Compartment Capacity.                                                                                                                                                                                                                                                          |
| 17                                | Flanged Gaskets          | <b>Viton or Equivalent Gaskets used on all Flanged Connections</b>                                                                                                                                                                                                                                                                        |
| 18                                | Grooved Gaskets          | <b>Customer requests no Grooved Connections</b>                                                                                                                                                                                                                                                                                           |
| 21                                | Brake Interlock Valve(s) | One (1) Aluminum Pipe Style Interlock Bar Installed Over Bottom Loading Adapters and Extended to Vapor Outlet(s) at Discharge with (1) Brake Interlock Valve. One (1) Brake Interlock Valve Mounted on Each Vapor Outlet not within API Bar.<br><br><b>Add One (1) Brake Interlock in EVO cabinet such that Opening Door locks brakes</b> |
| O Pump                            |                          |                                                                                                                                                                                                                                                                                                                                           |
| 1                                 | Pump                     | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 2                                 | Pump Piping              | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 3                                 | Hydraulic Lines          | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 4                                 | Flow Control             | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 5                                 | Platform                 | None-Optional                                                                                                                                                                                                                                                                                                                             |
| P Capacity Controls               |                          |                                                                                                                                                                                                                                                                                                                                           |
| 1                                 | Overfill System          | Overfill System with a Top Probe in each manhole                                                                                                                                                                                                                                                                                          |
| 2                                 | Sockets                  | Dual Optic and Thermistor sockets with vinyl caps in Curbside Control Cabinet                                                                                                                                                                                                                                                             |
| 3                                 | Top Sensor Settings      | Top sensors set to provide a 60 gallon minimum vapor space in each compartment.                                                                                                                                                                                                                                                           |
| 4                                 | Bottom Retain            | None-Optional                                                                                                                                                                                                                                                                                                                             |
| 5                                 | Overfill Operation       | Pressure switch to allow permit when all vapor vents are open                                                                                                                                                                                                                                                                             |
| 6                                 | Identification Module    | Installed in Dual Socket Assembly                                                                                                                                                                                                                                                                                                         |
| 7                                 | Static Studs             | Two (2) Brass Studs on 1-3/16" centers installed at Landing Gear on Curbside                                                                                                                                                                                                                                                              |
| 8                                 | Ground Bolt/Ball         | Ground Wire Installed in Each Socket Assembly                                                                                                                                                                                                                                                                                             |

| Q Wiring                           |                             |                                                                                                                                                                              |
|------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                  | Nose Box                    | <b>Dual Receptacle Nose Box with Main J-560 7-Way Plug and Circuit Breakers, and One ISO 3731 7-Way Receptacle for Auxiliary Functions, Located Low Roadside Front Head.</b> |
|                                    | Intellistop Module          | None-Optional                                                                                                                                                                |
| 2                                  | Light System                | Truck-Lite LED Junction Box Lighting System with Front Markers, Combination Side Center Turn/Marker Lights, and Three (3) Upper Clearance                                    |
| 2a                                 | End Dam Turn Lights         | None-Optional                                                                                                                                                                |
| 3                                  | Lamp Mounting               | Grommet Mounted                                                                                                                                                              |
| 4                                  | Light Boxes                 | Two (2) Aluminum Light Boxes on the Rear of the Trailer with Two (2) Red Stop/Marker Lamps and One (1) Amber Turn with Rear Side Marker Lights.                              |
| 5                                  | Wide-Turn Light(s)          | None-Optional                                                                                                                                                                |
| 6                                  | Work Light(s)               | Two (2) Grote LED work lamps, Mounted at Curbside Discharge Area with switch in Cabinet. MAC Extreme LED Lighting Assembly to Illuminate Discharge Valves                    |
| 6a                                 | Work Light(s) Operator      | All work lights operated by switch in EVO Cabinet                                                                                                                            |
| 7                                  | Cabinet Light(s)            | Install One (1) LED Strip Light in each Cabinet                                                                                                                              |
| 8                                  | Backup Lights               | None-Optional                                                                                                                                                                |
| 9                                  | Backup Alarm                | None-Optional                                                                                                                                                                |
| 10                                 | Extra Light(s)              | None-Optional                                                                                                                                                                |
| 11                                 | Closeout Light Panels       | None-Optional                                                                                                                                                                |
| R T.A.L.K- Total Area Lighting Kit |                             |                                                                                                                                                                              |
| 1                                  | T.A.L.K- SAFETY ARMS        | Yes                                                                                                                                                                          |
| 2                                  | T.A.L.K- INTERLOCK BAR      | Yes                                                                                                                                                                          |
| 3                                  | T.A.L.K- LIGHTED HOSE GUARD | Yes                                                                                                                                                                          |
| 4                                  | T.A.L.K- LIGHTED REAR HEAD  | Yes                                                                                                                                                                          |
| 5                                  | T.A.L.K- LIGHTED LADDER     | Yes                                                                                                                                                                          |
| 6                                  | T.A.L.K- Complete System    | Yes                                                                                                                                                                          |
| S Paint/Decals                     |                             |                                                                                                                                                                              |
| 1                                  | Corrosion Resistance        | Electrolysis barrier between all dissimilar metals.                                                                                                                          |
| 2                                  | Conspicuity                 | DOT 3M Tape per N.H.T.S.A. Requirements.                                                                                                                                     |
| 3                                  | Decals                      | Standard Safety/DOT-406 Warning and Safety Decals                                                                                                                            |
| 4                                  | Customer Decals             | None-Optional                                                                                                                                                                |
| 5                                  | Emergency Drain Decals      | Four (4) 3" diameter round DOT decals, (1) curbside and (1) roadside on horizontal centerline on each end head.                                                              |
| 6                                  | MAC Logo                    | Standard Black MAC Logo Placards on Vapor Rails and Rear Bumper                                                                                                              |
| 7                                  | Pin Striping                | Black or Selected from Color Options                                                                                                                                         |
| T Other/Options                    |                             |                                                                                                                                                                              |
| 1                                  | Document Holder             | Document Holder installed on Roadside, near landing gear frame.                                                                                                              |
| 2                                  | Static Cable                | 1/8" Stainless Steel Static Cables, Double Looped, One (1) Each Compartment.                                                                                                 |
| 3                                  | Placards                    | <b>Four (4) Aluminum Flip Placards (1203, 1987, 3475, 1863,1993) One (1) per side</b>                                                                                        |
| 4                                  | Safety Cone/Bucket Holder   | Dual Safety Cone and Bucket Holder mounted near Discharge Area                                                                                                               |
| 5                                  | Fire Extinguisher           | Jonesco Cabinet with 20 lb. Fire Extinguisher mounted at Roadside                                                                                                            |
| 12                                 | Calibration                 | Theoretical Calibration Chart - 1/4" Increments                                                                                                                              |
| 14                                 | Bicycle Guard               | None-Optional                                                                                                                                                                |
| 17                                 | Standard Inspections        | Initial Annual DOT Inspection, EPA Method 27, External Visual, Internal Visual, Pressure, and Leakage Tests.                                                                 |
| 18                                 | Additional Inspections      | None-Optional                                                                                                                                                                |
| 20                                 | Backup Camera               | None-Optional                                                                                                                                                                |
| 21                                 | Approvals                   | 3D Model and Design Review available upon Customer Request                                                                                                                   |

#### Additional Options / Requests / Notes

#### DISCLAIMER

Specifications are believed to be correct, but may contain errors and/or omissions. Photographs are the representative of the subject equipment but may not be identical.  
Equipment availability, prices and specifications are subject to change without notice.