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SPECIFICATIONS

MAC LTT Model: ATE-950-1-2-406 Date: 11/23/2021

Date Revised:

9500 Gallon DOT406 Revision: 1

Double TaperQuote Number:One CompartmentYear Model:2023Tandem AxleNumber of Units1

Serial Number(s): TBD
Sales Contact:

Reference Unit:

End User: End user

SALES ORDER NUMBER: TBD ESTIMATED WEIGHT: TBD
General

1 Trailer Type Aluminum
2 Code DOT-406
3 Overall Length in Feet 45

4 Shape Double Taper Elliptical with Slope to Center

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

Fifth Wheel Height Standard 49"
 Additional Regulation None-Optional

Barrel

2

12 Wheelbase Engineering to Design to Optimize Payload

13 Road Design Application Designed for on-road use only

1 Compartment(s) One (1) compartment

9500 US Gallons

2 Capacity 9,500 Gallons +3% Overage in Each Compartment with 60 Gallon Minimum Overage.

3 Baffles 0.25" Load Bearing & 0.19" Non-Load Bearing 5454 0T 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

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** Double 0.19" or Single 0.25" Bulkheads Nominal 5454 AL Flanged & Dished Heads-Mill Finish

7 **Manway(s)** One (1) 16" Diameter with 10" offset fill manhole per compartment.
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

14 Thermometer None-Optional Structure

1 Reinforcing Rings None - Smooth Exterior with Internal Baffles

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

Extruded Aluminum Full Length Frame Design

5 **Overturn Drain(s)** 3" Walkway drain through tank at Rear

Initals:_____

1 of 7

Model Number: ATE-950-1-2-406 Unit Number(s): TBD

Company Name: **Quote Number: Running Gear** Suspension Hendrickson Intraxx AANT23K, 23,000 lb. 49" 1a Axle Spacing (inches) ZMD Ride Bags None-Optional 1b 71 1/2" Track with 5.75" diameter; HP Spindles with Same Inner and Outer Bearings. 2 **Axles** 3 **Number of Axles** Two (2) None-Optional Lift Axle(s) **Ride Height Control** Standard Hendrickson Height Control Valve 4a Hendrickson MAXX22T Disc Brakes include DuraLite Hubs 5 Hub(s) 6 Drum(s) 7 **Dump Valve** Push/Pull Valve with Auto Reset mounted in Control Cabinet Hendrickson MAXX22T Disc Brakes with Wabco 18/24 Brake Chambers **Brakes/Brake Chambers Dust Shields** Sealed Dust Shield (Standard Disc Brakes) N/A - Integral with Disc Brake Option Slack Adjusters 10 Hendrickson Extended Life System "HXL5" with Federal Mogul Hub Seals Warranty 11 Gladhands 12 Phillips or Equivalent **ABS** Wabco 4S/2M System Wired to Blue Wire with Rear Malfunction Warning Light 13 14 **Roll Stability System** ABS with Roll Stability System 14a Diagnostic Cable None-Optional 15 Air System Aluminum Air Tanks 16 Tank Drain/Dryer Petcock Valve at bottom of each Tank Aluminum 17 **Suspension Frame Bumper** Aluminum Extruded 18 19 **Bumper Overlay** Full width Aluminum Buffed Cosmetic Bumper Overlay. 20 **Underride Protection** None when DOT 12" Wheels Back Exemption Applies 21 **Rear Closeout** Rear Tank Frame Closeout Panel Tires/Wheels Wheels Accuride Accu-Lite with Extra Polish **Tires** Goodyear Marathon RSS 11R22.5 16 Ply **Number of Tires** Eight (8) None-Optional **Tire Inflation System** Hubodometer 5 None-Optional 6 **Load Gauge** None-Optional **Fenders** Roadside Aluminum Contour Fender. Hose Tray on Curbside Doubles as Fender Fenders-Front 1a Closure Plate None-Optional Fenders-Rear Roadside Aluminum Contour Fender. Hose Tray on Curbside Doubles as Fender. Mudflaps MAC LTT Mudflaps on Rear of Fenders and Front Curbside of Rear Tires Standard MAC LTT Fabricated Anti-Sails installed where necessary 3a Anti-Sail None-Optional **Spray Guard** 4 **Landing Gear Landing Gear** Jost AX150 Alumilight Landing Gear **Crank Location** Roadside **Upper Fifth Wheel** 5/16" Upper Plate with Hubbed Kingpin. King Pin Plate Pick-Up-Plate Aluminum Pick-Up-Plate Installed if neccesary 2 Ladder/Platform/Walkway Rear Bolt-On Aluminum at Center of Head. Rails to have Rolled Radius at Top of Ladder and Top Deck plate Step Ladder(s) Safety Hand Rails None-Optional 3 Top Walkway Non-Skid Tape Between Top Vapor Rails **Fall Protection** None-Optional Cabinet(s) & Components One (1) Aluminum Cabinet, 36" Wide x 30" High x 27" Deep with Two Aluminum Side Hinged Doors. Mounted Tool Cabinet(s) curbside forward of suspension. *Install MAC preferred Shelving and Partitions for Petroleum Units One (1) 30" High Single Door Box with Overfill System and Emergency Valve Controls mounted at Front flush with top of EVO Cabinet(s)

Curbside Equipment Cabinet.

Initals:

2 of 7

Model Number: ATE-950-1-2-406Unit Number(s): TBDCompany Name:Quote Number: 2023

Hose Carrier(s) 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 16 Foot Gauge Stick and Holder on Curbside at Rear with Tension Pin at Front 3 **Gauge Stick** Venting & Vapor Recovery System Relief Vent(s) One (1) 10" Pressure/Vacuum Relief Valve with Set Pressure at 3.63 PSI Installed in Each Manhole Cover. One (1) BETTS #3686-AL Vent in the Vapor Line Under the Belly of the Tank. **Discharge Vent** Inward opening Sequential Vent with Viton seals in each manhole cover. Vents connected to nipples in curbside flashing rail with 3½" I.D. hose. Internal Vapor Pipe Through Tank with connections **Recovery Piping** at the following locations: (1) 4" outlet Curbside 15" to rear of last discharge valves (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. None-Optional 6 Vapor Drain Valving/Piping/Hose One (1) 4" Aluminum Drain Pocket at Bottom each compartment Outlet(s) 2 **Splash Deflector** Bolt-on Splash Deflector above each Emergency Valve **Extra Drain Troughs** None-Optional **Equipment Warranty** 5 Year Component Warranty with either Betts/Dixon-Bayco SuperTanker or Civacon System V 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 4" Sch 10 Aluminum discharge piping with formed long radius sweeps from Emergency Valves to Curbside of tank, per API 8 **Piping** standards. Manifold None-Optional 10 Front Pump-off Line None-Optional API Valves with Aluminum Handle and Viton seals per compartment. 11 Outlet Valve(s) Sight Bubble on API Valves 12 Sight Glass 4" Aluminum Male Gravity Drop Adapter with 4" Aluminum Dust Cap Adapter(s)/Cap(s) None-Optional Secondary Discharge(s) **Security Seal Provisions** None-Optional 8-sided commodity tags on bracket over each API valve with Compartment Capacity. 16 **Product Indicators** Flanged Gaskets Cork-N-Buna Gaskets on all flanged connections. 17 18 **Grooved Gaskets** Baylast or Equivalent Gaskets used on all Grooved Connections Brake Interlock Valve(s) One (1) Brake Interlock Valve Mounted on Each Vapor and Discharge Outlet(s) Pump None-Optional Pump 2 **Pump Piping** None-Optional 3 **Hydraulic Lines** None-Optional 4 Flow Control None-Optional **Platform** None-Optional

3 of 7

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	Company	Name. Quote number. 2025		
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	Nose Box with J560 7-Way Plug and Circuit Breakers Located Low Roadside at Front	
2	Light System	Truck-Lite LED Junction Box Lighting System with Front Markers, Combination Side Center Turn/Marker Lights, and Three (3) Upper Clearance/Stop	
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 lamp, 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	A.L.K- Total Area Lighting Kit		
1	T.A.L.K- SAFETY ARMS	No	

	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	No
	2	T.A.L.K- INTERLOCK BAR	Yes
	3	T.A.L.K- LIGHTED HOSE GUARD	No
	4	T.A.L.K- LIGHTED REAR HEAD	No
	5	T.A.L.K- LIGHTED LADDER	No
	6	T.A.L.K- Complete System	No
s	Pai	nt/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.

Standard MAC Logo Placards on Vapor Rails and Rear Bumper

Black or Selected from Color Options

4 of 7

MAC Logo Pin Striping Other/Options **Document Holder** Document Holder installed on Roadside, near landing gear frame. 1/8" Stainless Steel Static Cables, Double Looped, One (1) Each Compartment. 2 Static Cable **Placards** Four (4) Aluminum Slide-in Placard Holders. One (1) per side 3 Safety Cone/Bucket Holder Dual Safety Cone and Bucket Holder Installed Forward of Discharge Area Fire Extinguisher None-Optional Theoretical Calibration Chart - 1/4" Increments 12 Calibration 14 **Bicycle Guard** None-Optional **Standard Inspections** Initial Annual DOT Inspection, EPA Method 27, External Visual, Internal Visual, Pressure, and Leakage Tests. 17 None-Optional 18 Additional Inspections None-Optional 20 **Backup Camera**

3D Model and Design Review available upon Customer Request

5 of 7

21 Approvals