

SALES ORDER NUMBER:

6

Shell Finish

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MAC LTT, Inc 1400 Fairchild Ave Kent, Ohio 44240

MAC LTT Manufacturing, Inc 1430 US Highway 87 E Billings, MT 59101

MAC LTT Stainless Division 2253 Enterprise Drive Mt Pleasant, MI 48858

SPECIFICATIONS MAC LTT Model: ASE-920-1-2-406 Date: 11/23/2021 Date Revised: 9200 Gallon DOT406 Revision: 1 **Straight Elliptical Quote Number: One Compartment** Year Model: 2023 **Tandem Axle Number of Units** 1 Serial Number(s): **TBD** Sales Contact:

Reference Unit:

End User: End user **ESTIMATED WEIGHT: TBD**

General Aluminum 1 **Trailer Type** DOT-406 2 Code 3 Overall Length in Feet 44 Straight Bottom Elliptical with Slope to Rear Shape 3.3 PSI with 5 PSI Test Pressure 5 **Operating Pressure**

Max. Product Density Max. Loading Temp. 150° F max. Operating Temperature Product(s) Refined Fuels, Gasoline, Diesel, and Etc. Warranty Standard Three (3) Year Limited Warranty

TBD

10 Fifth Wheel Height Standard 49" **Additional Regulation** None-Optional 11

Engineering to Design to Optimize Payload 12 Wheelbase

Road Design Application Designed for on-road use only 13

Barrel Compartment(s) One (1) compartment

9200 US Gallons

7.5 lbs./ U.S. Gallon

Capacity 9,200 Gallons +3% Overage in Each Compartment with 60 Gallon Minimum Overage.

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

Shell Two Section Aluminum 5454-H32 Barrel 0.205" Bottom, 0.179" Top and Sides

Mechanical Buffed Sides with Enhanced Finished Top and Bottom

5 **End Heads** 0.249" Nominal 5454 0 Temper AL Flanged & Dished Heads

Head Finish 5a Polished Finish (Standard)

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

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

Thermometer None-Optional

Structure None - Smooth Exterior with Internal Baffles Reinforcing Rings

Barrel Supports Aluminum Outriggers and Crossmembers at Load Bearing Areas

DOT-406 Aluminum "V" Extrusion on Top Both Curbside and Roadside. Curbside Rail Doubles for Vapor. Dam Plates at **Overturn Protection**

Each End with 1/2" Coupler and Plug

Extruded Aluminum Full Length Frame Design

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

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Model Number: ASE-920-1-2-406 Unit Number(s): TBD Company Name: Quote Number:

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 Dura-Light 10 Stud Hub Piloted, 11 1/4" B.H.C. 5 Hub(s) Cast 16 1/2" x 7", 10-Stud Outboard Mount Drums 6 Drum(s) 7 **Dump Valve** Push/Pull Valve with Auto Reset mounted in Control Cabinet 23,000# Rating with S-Cam 16 1/2" x 7", 2.5" stroke, 3030 Chambers, and Non-Asbestos Linings **Brakes/Brake Chambers Dust Shields** None-Optional 9 Automatic Slack Adjusters 10 Warranty Hendrickson Extended Life System "HXL5" with Federal Mogul Hub Seals 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** 18 **Bumper** Aluminum Extruded 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** Two (2) Aluminum Contour Fenders-Front None-Optional 1a Closure Plate Roadside Aluminum Contour Fender. Hose Tray on Curbside Doubles as Fender. Fenders-Rear 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 4 **Spray Guard Landing Gear** Jost AX150 Alumilight Landing Gear **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 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.

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Model Number: ASE-920-1-2-406 Unit Number(s): TBD Company Name: Quote Number: 2023

Company Name: Hose Carrier(s) Hose Carrier(s) One (1) 3.5" x 22"W x 21' Long Aluminum Extruded Tray on Curbside at Rear. Includes drain hose 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 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 8 **Piping** 4" Sch 10 Aluminum discharge piping with formed long radius sweeps from Emergency Valves to Curbside of tank, per API 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 16 **Product Indicators** 8-sided commodity tags on bracket over each API valve with Compartment Capacity. 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)

O Pump

ги	rump		
1	Pump	None-Optional	
2	Pump Piping	None-Optional	
3	Hydraulic Lines	None-Optional	
4	Flow Control	None-Optional	
5	Platform	None-Optional	

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Model Number: ASE-920-1-2-406 Unit Number(s): TBD Quote Number: 2023 **Company Name:**

Company Name.		unie. Quote Number: 2023		
Capacity Controls				
•	1 Overfill System	Overfill System with a Top Probe in each manhole		
2	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		
ţ	Overfill Operation	Pressure switch to allow permit when all vapor vents are open		
(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 W	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.L.K- Total Area Lighting Kit	
1	T.A.L.K- SAFETY ARMS	No

	11	Olasa aut Limbt Banala	Nana Ontional
	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.
	6	MAC Logo	Standard MAC Logo Placards on Vapor Rails and Rear Bumper

Black or Selected from Color Options

Initals:__

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

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21 Approvals