

CIMC VEHICLES GROUP CO., LTD.

TECHNICAL SPECIFICATION

Aluminum Alloy Fuel Tanker Trailer

CUSTOMER:
MODEL: TANKER2900
Doc. No.:

PREPARED BY: Hu Xinhao
CHECKED BY:
APPROVED BY:
REVISION:
ISSUE DATE: 2023-12-12

CIMC specifications

Description: Aluminum Petroleum "B" Train rear Unit

Area of Operation: Manitoba, Saskatchewan, Alberta and British Columbia

Capacity: 29,000 Litres/Two Compartments

Product: Light Petroleum

TC406 Line
Drawing No.: DLB03654

Density: 0.87 kgs/litre

Max. Temperature: 50°C

Working Pressure: 22.7 kpa

Test Pressure: 34.5 kpa

Code: TC406

Material: Tank Shell: 0.173"(4.4mm) aluminum 5454-H32 (0.220"(5.6mm) (minimum) bottom over upper 5th and running gear)
Tank Heads: 97.6"(2480mm) x 76.8" (1950mm) H.D. oval aluminum 5454-0 temper, 0.220"(5.6mm) thick

Compartment Capacities: Compartment No. 1 - 11,500 litres (3038 gallons)
Compartment No. 2 - 17,500 litres (4624 gallons)
Note: Double bulkheads between compartments.

Manhole Covers: 20" diameter covers complete with integral 10" fill cap – BETTS MODEL:PPVL820BXB

Tunnel and Catwalk: An extruded aluminium tunnel designed to meet the requirements of the TC406 code will run full length of the unit. The tunnel will be drained through 2" PVC drains running externally down the rear head of the trailer. The cur bside tunnel rail will be tested to ensure it is vapour tight. The necessary fittings for the hoses from the vapour recovery hoods and outlet for the down pipe will be installed.

Discharging hose carrier: Trays type, one pc on right side, total length 250"(6400mm), total width 16.5"(420mm), aluminium alloy,. Rear opening with 1/2" drain system.

Drill holes with diameter 6mm every 2 feet for Bugeys at both sides of the trays.

Fenders:	Aluminium alloy/plastic mudguard, at rear for trailer tyre, half round, no front mudguard Note : all mud flaps provided & installed by customers
Ladder:	Aluminium alloy
Tool Box	Aluminium alloy
Pipelines:	4"
Pump-off Line:	Not included.
Internal Valves:	4" DIXON aluminium air operated emergency valves model EV46911ALTS. The emergency valves will be operated by an Dixon AD14PP2ALFS pneumatic operator. The operator will be mounted in the underslung compartment. The remote control operator will be mounted on the driver side of the unit at the front outrigger. There will also be a release valve mounted in the underslung, which is activated by closing the door.
Discharge Valves:	The discharge lines on the curb side will be equipped with Dixon openable bottom loading adaptors, Model 5204 complete with 4" Dixon drop spout Model 4530. These adaptors will be mounted 34" above ground level immediately rearward of the landing gear on 18" centres. API valve centres at 18".
Drip tray	Drip tray equip under the API valves, big size, 17 inches below centre of API, min capacity: 5 gallon
Overfill prevention system:	Use Rom II system , 3 sets of socket(MODEL: FT300) in right oil recovery connector, Leader and Follower trailers share one sets of ROM II system, the control machine fixed on the Leader trailer.
Venting:	<div data-bbox="444 821 740 1218"></div> <p>3.5" DIXON, Model VR6035SQ pneumatic oil recovery valve , oil recovery connector in discharge outlet model:VR4100F , vent in valance model : CIVACON;T180SV. The pipeline extended outside from the rear dish end area and the recovery valve located outside of the rear dish end.</p> <p>3 inch nipple male with a cap G300-A-AL and G300-DC-AL as this Is for USA Standards.</p> <p>Vapor Vents VR6035SQ on the top of the vapor pipe line.</p> <p>Air interlock valve 5000AL.</p>
Bumper:	The unit will be equipped with a Steel_bumper designed to meet the requirements of the TC406 code. CMVSS223 rear impact protection.
Tire Carrier:	Not included.
Upper Fifth Plate:	0.394"(10mm) heavy duty, unloading height 48"(1220mm)
Landing Gear:	Model: HOLLAND-ATLAS 55, two speed , sand shows, left operation, assembled in aluminium alloy brackets.
Suspension:	Model: Hendrickson Type: HSDS 10T HP Spindles HSDS.460_GT19099_R0 2 axle, wheel base 50" With 3-way valve
Air Control Kit:	Hendrickson AKH0303 with manual deflation valve.
Axles:	Make – Hendrickson
Air Brakes:	CMVSS121 air brake system with Sealco spring brake valve and WABCO service system. It will be equipped with Haldex spring brakes. All air tanks will be equipped with remotely activated drain cocks. There will be a manual shut-off valve in the service and emergency lines at the rear of the unit. The slack adjusters will be 5 ½" Eaton Haldex automatic. This unit will be equipped with a Sealco pressure equalizing and speed-up valve. It will be equipped with a quick release gladhand mounted in the service line.
Antilock Brakes:	Meritor Wabco 4S/2M ABS system. This trailer will provide signal for in-cab ABS indicator via multiplexing over the blue wire.
ABS	
Wheel Seals:	Stemco Endeavor

Wheel End Lubricant:	75W-90 synthetic gear oil.
Hubodometer:	Not included.
Rims:	Make - Alux Model – 10 stud hub pilot model #883677 (Level 1 polish) Size - 8.25 x 22.5 aluminum disc
Tires:	Make – Goodyear Size - 11R22.5 -16 Ply Partten- S200+ <u><i>Note: This unit will not be equipped with a spare tire and rim.</i></u>
PSI- System	Tiremaax Pro for 2-Axle
Auto-grease system	Nil
Lighting:	<p>A weatherproof lighting system in compliance with the requirements of the Canadian Motor Vehicle Safety Standards. The front junction box will be located on the front head on the driverside adjacent to the ladder in the upper quadrant.</p> <p><u><i>Note: All lights except the arrow light used in this system will be GROTE LED lamps. There will be no back-up lamps. LED lights to be flange type and fitted with antitheft rings, secured with stainless steel rivets.</i></u></p> <p><u><i>All Rubber Grommets on Lights</i></u> <u><i>All closed tyoe of light box shall have drain hole at the bottom if any.</i></u></p> <p>Front: Clearance Lamp: R-L 2Pcs</p> <p>Side: Mark lamp: R-L 4Pcs Turning lamp: R-L 2Pcs Reflector: R-L 6Pcs Arrow light: R-L 2Pcs, TRUCKLITE 60080Y</p> <p>Rear Bump: (Light bar protection for the rear pair lights) Brake/Mark lamp: R-L 4Pcs, red Turning lamp(strobe): R-L 2Pcs, amber, Part #77353 Grote Clearance Lamp: R-L 2Pcs Register plate light: 1Pcs Reflector: R-L 2Pcs Rear top: Identify Lamp: 3 Pcs Brake lamp: 1Pcs</p> <p>Rear dish end: one pair of lights on both sides Brake /Mark lamp: R-L 2 Pcs, red Turning lamp(strobe): R-L 2Pcs, amber, Part #77353 Grote</p> <p>1 ABS light placed at left edge of rear bumper facing forward (driver's side – left hand side)</p> <p>Working lights: Two working lights at right side, one working light Grote 01-BZ30-15 is at front of the API valve area, the another Grote 63Z11 at the top, both lights controlled simultaneously by a switch near the down work light under the tray.</p>
Grounding Equipment:	Bronze grounding block, Top: 3 inside right valance, bottom: one in each front mudguard, one in rear frame, two in gravity discharging outlet.
Painting and Finishing:	The upper fifth plate, landing gear assembly and the complete running gear assembly will be sandblasted, primed and finish painted with silver colour. All aluminum and stainless steel components will be painted with silver colour. And the silver colour is as per the colour chip provided by the customer.
Customer decals	No customer LOGO decal on front tank trailer. 'WIDE TURN CAUTION' and 'STOPS AT UNCONTROLLED RAILWAY CROSSING' decals on the rear dish end.
Calibration:	Need each compartment calibrated, metal Dip Chart fixed on inner side door of tool box. And will be equipped with top marker in each compartment. These settings will be done "wet line".
Placard Holders:	Four placard holders, one in each side. Not touch the tank barrel.
Fire Extinguisher:	Plastic Fire Extinguisher box in RED colour, 1 piece, fixed at front of the first axle of LEFT side of each trailer , Fire Extinguisher NOT included.
Registration Holder:	Supply and install one Betts PS-I clear lens holder mounted on the driver side on the tank frame over the fender.

Conspicuity Decalling: Supply and install conspicuity decalling as per CMVSS 108 requirements.

2023-12-12

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CIMC VEHICLES GROUP CO., LTD.

TECHNICAL SPECIFICATION

Aluminum Alloy Fuel Tanker Trailer

CUSTOMER:
MODEL: TANKER3250
Doc. No.:

PREPARED BY: HU XINHAO
CHECKED BY:
APPROVED BY:
REVISION:
ISSUE DATE: 2023-12-12

CIMC specifications

Description: Aluminum Petroleum "B" Train Lead Unit

Area of Operation: Manitoba, Saskatchewan, Alberta and British Columbia

Tractor: Model – T880 Series Conventional

Model #1:	Model #2:
Wheel Base – 244"	Wheel Base – 240"
Cab to Axle – 170"	Cab to Axle – 166"
Rear overhang - 56"	Rear overhang - 56"
Max. Allowable Fwd 5 th wheel Setting- 30"	Max. Allowable Fwd 5 th wheel Setting- 30"
Chassis load:	Chassis load:
Front Axle 5,670 kgs (12500 lbs)	Front Axle 5,670 kgs (12500 lbs)
Rear Axle 20,865 kgs (46000 lbs)	Rear Axle 20,865 kgs (46000 lbs)
G.C.W 5,443 kgs (12000 lbs)	G.C.W 5,443 kgs (12000 lbs)
Fifth Wheel Setting	Fifth Wheel Setting –
Unladen Fifth Height– 49.7"	Unladen Fifth Height– 49.7"
Laden Fifth Height– 48.7"	Laden Fifth Height– 48.7"

Capacity: 32,500 Litres/Three Compartments

Product: Light Petroleum

TC406 Line
Drawing No.: DLB03654

Density: 0.87 kgs/litre

Max. Temperature: 50°C

Working Pressure: 22.7 kpa

Test Pressure: 34.5 kpa

Code: TC406

Material: Tank Shell: 0.173"(4.4mm) aluminum 5454-H32 (0.220"(5.6mm) (minimum) bottom over upper 5th and running gear).
Tank Heads: 97.6"(2480mm) x 76.8" (1950mm) H.D. oval aluminum 5454-0 temper, 0.220"(5.6mm) thick

Compartment Capacities:	<p>Compartment No. 1 - 15,000 litres (3963 gallons)</p> <p>Compartment No. 2 - 5,500 litres (1453 gallons)</p> <p>Compartment No. 3 - 12,000 litres (3170 gallons)</p> <p><u>Note: Double bulkheads between compartments.</u></p>
Manhole Covers:	20" diameter covers complete with integral 10" fill cap – DIXON MODEL: PPVL820BXB
Tunnel and Catwalk:	An extruded aluminum tunnel designed to meet the requirements of the TC406 code will run the full length of the unit. The tunnel will be drained through a rear ladder. The curbside tunnel rail will be tested to ensure it is vapour tight. The necessary fittings for the hoses from the vapour recovery hoods and outlet for the down pipe will be installed.
Discharging hose carrier:	<p>Trays type, one pc on right side, total length 250"(6400mm), total width 16.5"(420mm), aluminium alloy,. Rear opening with 1/2" drain system.</p> <p>Drill holes with diameter 6mm every 2 feet for Bugeys at both sides of the trays.</p>
Dipstick Holder:	Not Required.
Fenders:	<p>Aluminium alloy/plastic mudguard at front for tractor tyre and at rear for trailer tyre, half round</p> <p>Note : all mud flaps provided & installed by customers</p>
Ladder:	Aluminium alloy, at the back.
Safety cable	One pc of safty cable fixed at left side of the top walk way
Tool Box	Aluminium alloy
Pipelines:	4"
Pump-off Line:	3" Aluminium alloy pipe
Internal Valves:	4" DIXON aluminum air operated emergency valves model EV46911ALTS. The emergency valves will be operated by an Dixon AD14PP3ALFS pneumatic operator. The operator will be mounted in the underslung compartment. The remote control operator will be mounted on the drive rside of the unit at the front outrigger. There will also be a release valve mounted in the underslung, which is activated by closing the door.
Manifold:	Not required.
Discharge Valves:	<p>The discharge lines on the curbside will be equipped with Dixon openable bottom loading adaptors, Model 5204 complete with 4" Dixon drop spout Model 4530. These adaptors will be mounted 34" above ground level immediately rearward of the landing gear on 28" centres.</p> <p>API valve centres at 18".</p>
Drip tray	Drip tray equip under the API valves, big size, 17 inches below centre of API, min capacity: 5 gallon
Overfill prevention system:	Use Rom II system , 3 sets of socket(MODEL: FT300) in right oil recovery connector, Leader and Follower trailers share one sets of ROM II system, the control machine fixed on the Leader trailer.
Venting:	<div data-bbox="446 1360 787 1738" data-label="Image"> </div> <p>3.5" DIXON, Model VR6035SQ pneumatic oil recovery valve, oil recovery connector in discharge outlet model:VR4100F , vent in valance model : CIVACON;T180SV. The pipeline extended outside from the rear dish end area and the recovery valve located outside of the rear dish end.</p> <p>3 inch nipple male with a cap G300-A-AL and G300-DC-AL as this is for USA Standards.</p> <p>Vapor Vents VR6035SQ on the top of the vapor pipe line.</p> <p>Air interlock valve 5000AL.</p>
Bumper:	The unit will be equipped with an Steel_bumper designed to meet the requirements of the TC406 code. CMVSS223 rear impact protection.
Tyre Carrier:	Not required.
Upper Fifth Plate:	Steel 0.394" (10mm) , heavy duty, unloading height 46.50"(1180mm), equip a deflector at the front of upper fifth plate
Skid Plate:	The unit will not be equipped with a bumper.
Landing Gear:	Model: HOLLAND-ATLAS 55, two speed , sand shows, left operation, assembled in aluminium alloy brackets.
Suspension:	<p>Make: Hendrickson</p> <p>Type: HSDS 10T</p>

HP Spindles
Spec.: HSDS.459_GT19098_R0
Tri-axle, wheel base 60"
With 3-way valve

Air Control Kit:	Hendrickson AKH0303 with manual deflation valve.
Axles:	Maker – Hendrickson Axle Track – 77.5"
Air Brakes:	CMVSS121 air brake system with Sealco spring brake valve and WABCO service system. It will be equipped with Haldex spring brakes. All air tanks will be equipped with remotely activated drain cocks. There will be a manual shut-off valve in the service and emergency lines at the rear of the unit. The slack adjusters will be 5 ½" Eaton Haldex automatic. This unit will be equipped with a Sealco pressure equalizing and speed-up valve. It will be equipped with a quick release gladhand mounted in the service line.
Antilock Brakes: ABS	Meritor Wabco 4S/2M ABS system. This trailer will provide signal for in-cab ABS indicator via multiplexing over the blue wire.
Wheel End Lubricant:	75W-90 synthetic gear oil.
Hubodometer:	Make – Stemco (metric) to be mounted on the centre axle in the tri-axle group on the kerbside of the unit.
Rims:	Make - Alux Model – 10 stud hub pilot model #883677 (Level 1 polish) Size - 8.25 x 22.5 aluminium disc
Tires:	Make – Goodyear Size - 11R22.5 -16 Ply Partten- S200+ <u>Note: This unit will not be equipped with a spare tire and rim.</u>
PSI- System	Tiremaax Pro for 3-Axle
Auto-grease system	Nil
Lower Fifth Wheel Assembly:	Wheel A Holland Kompensator will be mounted at the rear of the unit - Model FW35-S07320-1 (Fifth Wheel Height 48", left operation) The Kompensator will be equipped with a grease manifold to make remote greasing possible. HOLLAND Kompensator
Lighting:	<p>Weatherproof lighting system in compliance with the requirements of the Canadian Motor Vehicle Safety Standards. The nosebox will be located at the front of the trailer on the front head on the vertical centreline 12" above the horizontal centreline of the tank.</p> <p><u>Note: All lights except the arrow light used in this system will be GROTE LED lamps. There will be no back-up lamps. LED lights to be flange type and fitted with antitheft rings, secured with stainless steel rivets.</u> <u>All Rubber Grommets on Lights</u> <u>All closed tyoe of light box shall have drain hole at the bottom if any.</u></p> <p>Front: Clearance Lamp: R-L 2Pcs</p> <p>Side: Mark lamp: R-L 4Pcs Turning lamp: R-L 2Pcs Reflector: R-L 6Pcs Arrow light: R-L 2Pcs, TRUCKLITE 60080Y</p> <p>Rear Bump: (Light bar protection for the rear pair lights) Brake/Mark lamp: R-L 4Pcs, red Turning lamp(strobe): R-L 2Pcs, amber, Part #77353 Grote</p> <p>Clearance Lamp: R-L 2Pcs Register plate light: 1Pcs Reflector: R-L 2Pcs</p> <p>Rear top: Identify Lamp: 3 Pcs</p> <p>Rear dish end: no pair lights on the both sides of rear dish end. 1 ABS light placed at left edge of rear bumper facing forward (driver's side – left hand side)</p> <p>Working lights: Two working lights at right side, one working light Grote 01-BZ30-15 is at front of the API valve area, the another Grote 63Z11 at the top, both lights controlled simultaneously by a switch near the down work light under the tray.</p>
Grounding Equipment:	Bronze grounding block , Top: 3 inside right valance, bottom: one in each front mudguard, one in rear

frame, two in gravity discharging outlet.

Painting and Finishing:	The spacer plate, upper fifth plate, landing gear assembly and the complete running gear assembly will be sandblasted, primed and finish painted with silver colour. All aluminum and stainless steel components will be painted with silver colour. And the silver colour is as per the colour chip provided by the customer.
Customer decals	No customer LOGO decal on front tank trailer. No 'WIDE TURN CAUTION' and 'STOPS AT UNCONTROLLED RAILWAY CROSSING' decals on the rear dish end.
Calibration:	Need each compartment calibrated, metal Dip Chart fixed on inner side door of tool box. And will be equipped with top marker in each compartment. These settings will be done "wet line".
Placard Holders:	Four placard holders, one in each side. Not touch the tank barrel.
Fire Extinguisher:	Plastic Fire Extinguisher box in RED colour, 1 piece, fixed at front of the first axle of LEFT side of each trailer , Fire Extinguisher NOT included.
Registration Holder:	Assembly above left mudguard
Conspicuity Decalling:	Supply and install conspicuity decalling as per CMVSS 108 requirements.