



Cobo Tankers and Services Ltd.  
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**Cobo Technical Specification for 42,000 litres, 6 compartments,  
semi-trailer tankers, for the transport of Petroleum Products (inc. Ethanol & E85),  
according to Class 3 of Latest ADR Regulations.**



Main Parameters:

Section:	Latest 030/031, elliptical step section (Low C Of G, ref ECE Reg. 111)
Overall Length:	12,020 mm.
Max Overall Width:	2,550 mm.
Max Height:	3,355 mm. (3,305 mm laden).
Fifth Wheel Height Unladen:	1,250 – 1,270 mm.
Volume:	42.0m <sup>3</sup> – 6 compartments.
Ullage:	3% nominal (150 litres minimum per compartment).
GCW:	44 tonnes.
Triaxle load:	24 tonnes.
5 <sup>TH</sup> Wheel load:	14.0 tonnes (rubbing plate 12mm thickness).
Calculated Tare Weight:	5.75 tonnes.

Vessel Design Details:

Shell:	Aluminium alloy, EN14286 (5088, 5182, or 5186, H111) thickness 5.0mm.
Heads:	Aluminium alloy, EN14286, thickness 5.3 mm.
Baffles:	5 off, aluminium alloy, EN14286, thickness 5.0 mm.
Max dist. between baffles:	1,750mm
Chassis:	Cobo patented, SKD style, extruded profile.
Test Pressure:	0.4 bar
Working Pressure:	Atmospheric
Test Capacity:	43,260 litres

Compartments Equipment:

Compartment Capacities:	7,000/7,000/7,000/7,000/7,000/7,000 litres.
Man lids:	6 x Cobo (Tecnometal), 20", ADT, RH/LH, pressed aluminium, sealed man lids, bolted to welded neck rings, c/w Cobo (Tecnometal) P/V vent valves (1 1/4" BSP fitting, with Type IIB flame gauzes), 100mb pressure/20mb vacuum. 280mb fire engulfment venting. Man lids fitted with fill cover hinges to front of tank.
Central Earth Conductor:	Appropriate compartments only, fitted with 5mm, stainless steel, cable conductors, in accordance with Major Oil Companies SLPS requirements.
Dip Tubes:	None. Cobo (Tecnometal), dummy mandrills fitted, for roll over evacuation only.
High level cut off:	Scully plug and play type, 2- wire, optic system, bottom socket only, c/w brake interlock and pressure switch, to prevent permissive signal until VR hose connected. Plate indicating 2-wire system, affixed adjacent to socket.
Foot valves:	6 x Cobo (Tecnometal), 5 off intermediate profile, 1 off low profile, 4", non-pressure balanced foot valves, all c/w internal flow dissipater plate and strainer. Visiwink indicators located adjacent to corresponding APIs.

Discharge pipe work:	Aluminium, 104mm diameter, one-piece construction (no welded joints) c/w aluminium 'U' supports. Pipe work designed to be self-draining.
API adapters:	6 x Cobo (Tecnometal), 98.00.04/E/GL, 4", manual API valves, c/w sight glass with floating ball indicator and 'ADR' blanking cap, c/w 'heavy duty' chain.
API/Drive-away Protection:	Light section design, API locking bar in aluminium, with brake interlock system.
API cabinet/Drip Tray:	Light section design, open type in aluminium, c/w foot valve open/closed, visiwink indicators, and 'plugged' product/water drain holes.
Vapour recovery equipment:	6 x Cobo (Tecnometal), 3" compartment vapour transfer valves, c/w flexible ducting, incorporating integral earth continuity wire; "3/4" length aluminium valance; 1x Cobo (Tecnometal), 4", vapour recovery adapter, c/w brake interlock valve and blanking cap. (No coaming, 'dump' valve fitted, in accordance with EI recommendations). Plate affixed to tank, in API cabinet, indicating maximum number of loading arms that can be connected.
Grade indicators:	6 x Designed For Safety GPI/170/10, fitted as required.
Capacity/ Comp No. Plates:	'Traffolite' plates fitted adjacent to each API adapter and each man lid. Decals applied to inside and out side of coaming valance.
Emergency stop:	2 x remote cut-out valves
Control cabinet:	Cobo, 6 compartment, pneumatic control cabinet in stainless steel. Control system c/w separate, Yellow, guard bar release button in accordance with EI recommendations.

#### Cargo Pump:

Blackmer TXD3 (1,022 L/min) rotary vane cargo pump (viton seals) c/w close coupled OMR100, Danfoss motor, 4" suction filter and reversible, hydraulic drive module, with flow control valve, c/w 3/4" BSP, ISO A, QR tractor connect couplings, mounted to front of tank.  
Pump suction and outlet in 3" aluminium pipe work, suction and outlet to hose tray. Both terminating in 3", BSP, male fittings. Suction at front of hose tray with outlet closest to tank set further towards rear to facilitate coupling of pipework.

#### Hose Racks & Tool Box:

New, larger profile, extruded aluminium, brushed finish, open type hose trays, including drainage ducts, fitted at both sides and rear of tank, c/w with oil and grease resistant straps.  
Extruded aluminium, tank side protection above hose trays.  
Stainless steel lockable toolbox, mounted to nearside front of tank.

#### Running Gear & Braking System:

3 x BPW, HSFALM (T), 3/9010-10, C 30K, EcoPlus airlight heavy duty II, 9 tonnes axles, c/w 4218, 420 x 180 drum brakes. (lift axle on first axle). 3 x BPW, 9 tonnes, Airlight II, pneumatic suspensions, c/w Knorr-Bremse manually operated raise, hold and lower valve.  
Knorr-Bremse TEBSG2, 2S/2M, electronic braking system, c/w TRSP roll stability and TIM (Trailer Info Module) functions.  
Odometer reading via TIM equipment.  
Spring applied parking brakes, with automatic slack adjusters, fitted to 2 off axles, minimum.  
Braking system in accordance with EEC Regulations (No 13 Annex 13 or Directive 71/320 EEC).

#### Wheels & Tyres:

6 x Alcoa, forged, 'Brushed Finish', aluminium wheels, 11.75" rims. Wheel nuts fitted with anti-loose, wheel nut torque indicators.  
6 x 385/65R 22.5, Continental HTR-2, super single tyres. Plates indicating correct tyre pressure affixed to tank.

### Electrical System:

Aspoeck, ADR approved, fully LED, lighting and wiring system, according to EEC Regulations and U.K. Legislation, incorporating:-

Rear lighting clusters (mounted in C-Type bumper), including stop, tail, reversing, fog, and indicator functions. Separate, hamburger style, high-level lighting clusters, including stop, tail and indicator functions. Side, front and rear marker lights & front and rear outline marker lights, LED units. Side markers also with DI function.

Rear number plate holder, c/w lamp.

Brigade, ADR approved, 24V, reversing alarm (91790).

1 x ISO 12098, 15 pin socket.

1 x ISO 7638 socket for EBS.

Note – layout of air and electrical sockets to ISO Standard.

3 off ½”, brass earth pins fitted as required. 1 off to rear, 1 off in API cabinet, 1 off central on top.

### Tanker Equipment:

Grey, Perlite impregnated, non-slip paint, applied to top of tank, covering all walking areas between valance and around man lids.

2 x internal aluminium drain tubes c/w ball valves and terminating in plastic tubing, to rear of tanker.

2 x Jost, 25 tonnes static load, 2 speeds, mechanical, offside operation landing legs with ‘compensating’, S type, feet.

2 x rails, brushed finish, aluminium side guards, in accordance with EC Directive 89/279, with top rail height of 1050mm.

1 x C- Type aluminium, tank rear bumper bolted to tank rear supports, in accordance with EI design recommendations – this bumper to house lights.

1 x aluminium, rear under-run bumper, bolted to chassis brackets, in accordance with C & U Regulations.

2 x wheel wedges in aluminium.

6 x BPW, black powder coated, galvanised steel, mud wings, in accordance with EI Design Codes, c/w spray suppression to rearmost mud wings.

Hazchem plates: 3 x Designed For Safety, Tricode, hazchem plates, fitted to both sides and rear of tank.

Plates c/w extensions for, and fitted with, Designed For Safety, Environmental (Fish & Tree) diamonds.

Fire extinguishers: 1 x 9kg dry powder (by Cobo UK), fitted in a B & J, closed red cabinet, mounted to nearside rear of the tank.

Spill Kit in B & J, grey, GRP container box, mounted, on an angle, to nearside rear. Spill kit box also containing 1x neoprene drain cover, 1 x premium, two-piece shovel and 1 x pair of safety goggles.

Small GRP ‘tool box’, suitable for storage of 5 litres, plastic, chemically resistant, bucket c/w with lid, mounted to offside rear.

Traffic cone carrier mounted to off side rear, c/w 4 off, 18” cones .

Plate for identifying correct setting of overfill prevention probes, in accordance with EI Design Codes.

Plate indicating max. number of compartments that can be loaded, in accordance with EI Design Codes.

Plate indicating minimum opening pressure of P/V vent valves, in accordance with EI Design Codes.

### Finishing/Painting:

Primer:

Aluminium, 50 microns.

Vessel/Valance:

In two colour, 2 pack acrylic paint – White RAL9010 & valance in blue.

API Cabinet/Pump Mounts:

In one colour, 2 pack acrylic paint – Grey RAL7016.

Running Gear:

In black, KTL coating, by axle manufacturer.

Conspicuity Markings:

Appropriate decals affixed to sides and rear, in line with July 2011 Legislation (UN ECE Reg. 48). White to sides, Red to rear.

Corporate livery decals:

Agreed corporate decals to be included.

Paintwork guarantee:

5 Years.

Documents:

All necessary ADR documents, issued by Bureau Veritas Spain, in English, to UK requirements. ECVWTA approvals by Spanish Ministry of Transport.

U.K. DVSA first ADR Certification and EIS & Plating Certification - arranged by Cobo.

Trailer Compliance:

The Road Vehicles (Construction and Use) Regulations and Amendments 1986.

The Road Vehicle Lighting Regulations 1994 (as Amended).

The Carriage of Dangerous Goods & Transportation of Pressure Equipment Regulation 2009.

The Measuring Equipment (Liquid Fuel Delivered from Road Trailers) Regulations 1985.

The European Directive (94/63ec) for the Control of Emissions Of Volatile Organic Compounds.

ADR 2011/13 Classification 3, incorporating EN13094

The Participating Major Oil Companies SLP Scheme 2009.

Energy Institute Codes of Practice: Petrol Road Tanker Design and Construction, 3<sup>rd</sup> Edition, April 2010.

Basic Warranty Cover:

Tank barrel: 5 years or 600,000 Kms.

Chassis & Sub frame: 5 years or 600,000 Kms.

BPW axle beams, hubs & sub frame: 5 years\*/unlimited mileage.

Drum Brakes pads and linings: 3 years. \*\*

\* Warranty extended by additional 3 years if all services carried out by BPW approved agent.

\*\*Warranty cover for wear parts relates to manufacturing defects only, in accordance with EU Regs.

All other ancillary equipment: Parts and labour for first 12 months.

Terms and Conditions

\*Quotation valid for 30 days.

\*As per Cobo Tankers and Services T&C's of sale.

\* Our price above is ex-works, Scunthorpe TBC

\* The price is also inclusive of driver training, either in Scunthorpe, or at your operating location, to suit your preference.