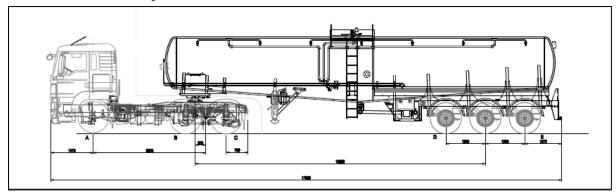
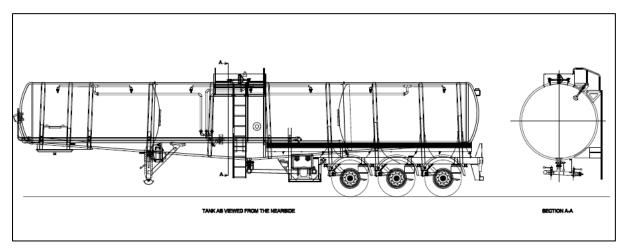
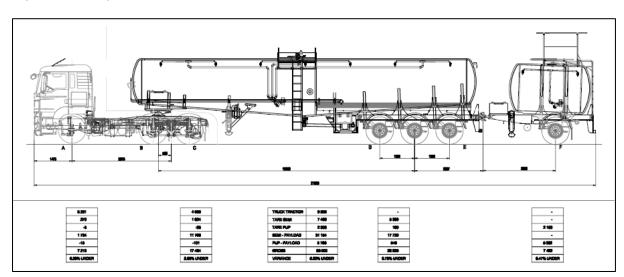
General Assembly





(Optional for Pup Tanker – not included in this build)



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1 Specification

Trype Tridem Semi-trailer Capacity 38,000 litre Compartments 1 (One) Material 304 (S/Steel) Shape Double Conical Payload (Food grade oils) 33,500 kg Positive Displacement Pump R43 Rotofio (316 Stainless Steel) Product flow rate 50 m³/hr Hydraulic flow rate 60 l/min "Pup ready" Yes Tanker - Trailing Equipment Chassis Colour Barloworld Blue Tanker external colour White Internal finish Food Grade Finish External finish (tank) Cladded Manhole Stainless Steel (500 mm) Yes Food grade gasket Yes Breather (Stainless Steel) Yes Insulation - Shells Smm Rockwool 45mm Polyurethane Insulation - Dish 50 mm Glasswool Steam Heating Yes Gravity discharge line 4" S/Steel Gravity Line coupling Camlock Pump Discharge Line 4" S/Steel Chassis/Suspension - Trailing Equipment Suspension BPW Air - ALM Brakes Disc Rims Aluminium (11.75x22.5) King pin 50 mm	General – Trailing Equipment	
Capacity Compartments 1 (One) Material 304 (S/Steel) Shape Double Conical Payload (Food grade oils) Positive Displacement Pump R43 Rotoflo (316 Stainless Steel) Product flow rate Hydraulic flow rate 60 I/min "Pup ready" Yes Tanker - Trailing Equipment Chassis Colour Tanker external colour Internal finish External finish (tank) Manhole Stainless Steel (500 mm) Food grade gasket Breather (Stainless Steel) Insulation - Shells Steam Heating CIP (Chained filter and clamps) Yes Outlet piping and Valves Gravity discharge Line Foraksis/Suspension - Trailing Equipment Chassis/Suspension - Trailing Equipment Suspension BPW Air - ALM Brakes Rims Aluminium (11.75x22.5)	Туре	Tridem Semi-trailer
Material 304 (S/Steel) Shape Double Conical Payload (Food grade oils) 33,500 kg Positive Displacement Pump R43 Rotoflo (316 Stainless Steel) Product flow rate 50 m³/hr Hydraulic flow rate 60 l/min "Pup ready" Yes Tanker – Trailing Equipment Chassis Colour Barloworld Blue Tanker external colour White Internal finish Food Grade Finish External finish (tank) Cladded Manhole Stainless Steel (500 mm) Yes Food grade gasket Yes Breather (Stainless Steel) Yes Insulation – Shells 50 mm Rockwool 45mm Polyurethane Insulation – Dish 50 mm Glasswool Steam Heating Yes CIP (Chained filter and clamps) Yes Gravity discharge line 4" S/Steel Gravity Line coupling Camlock Pump Discharge Line 4" S/Steel Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)		38,000 litre
Material 304 (S/Steel) Shape Double Conical Payload (Food grade oils) 33,500 kg Positive Displacement Pump R43 Rotoflo (316 Stainless Steel) Product flow rate 50 m³/hr Hydraulic flow rate 60 l/min "Pup ready" Yes Tanker – Trailing Equipment Chassis Colour Barloworld Blue Tanker external colour White Internal finish Food Grade Finish External finish (tank) Cladded Manhole Stainless Steel (500 mm) Yes Food grade gasket Yes Breather (Stainless Steel) Yes Insulation – Shells 50 mm Rockwool 45mm Polyurethane Insulation – Dish 50 mm Glasswool Steam Heating Yes CIP (Chained filter and clamps) Yes Gravity discharge line 4" S/Steel Gravity Line coupling Camlock Pump Discharge Line 4" S/Steel Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)		1 (One)
Shape Double Conical Payload (Food grade oils) 33,500 kg Positive Displacement Pump R43 Rotoflo (316 Stainless Steel) Product flow rate 50 m³/hr Hydraulic flow rate 60 l/min "Pup ready" Yes Tanker – Trailing Equipment Chassis Colour Barloworld Blue Internal finish Food Grade Finish External finish Food Grade Finish External finish (tank) Cladded Manhole Stainless Steel (500 mm) Yes Food grade gasket Yes Breather (Stainless Steel) Yes Insulation – Shells 500 mm Glasswool Steam Heating Yes CIP (Chained filter and clamps) Yes Gravity discharge line 4" S/Steel Gravity Line coupling Camlock Pump Discharge Line 4" S/Steel Securement of all fittings, couplings, etc Valve Balls Locktite Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)	·	·
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Product flow rate 50 m³/hr Hydraulic flow rate 60 l/min "Pup ready" Yes Tanker – Trailing Equipment Chassis Colour Barloworld Blue Tanker external colour White Internal finish Food Grade Finish External finish (tank) Cladded Manhole Stainless Steel (500 mm) Yes Food grade gasket Yes Breather (Stainless Steel) Yes Insulation – Shells 5mm Rockwool 45mm Polyurethane Insulation – Dish 50 mm Glasswool Steam Heating Yes CIP (Chained filter and clamps) Yes Outlet piping and Valves Gravity discharge line 4" S/Steel Gravity Line coupling Camlock Pump Discharge Line 4" S/Steel Securement of all fittings, couplings, etc Valve Balls Locktite Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)		
Product flow rate Hydraulic flow rate 60 l/min "Pup ready" Yes Tanker – Trailing Equipment Chassis Colour Barloworld Blue Tanker external colour Internal finish External finish External finish (tank) Manhole Stainless Steel (500 mm) Food grade gasket Breather (Stainless Steel) Insulation – Shells Insulation – Dish Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)	· ·	Stainless Steel)
Hydraulic flow rate "Pup ready" Tanker – Trailing Equipment Chassis Colour Tanker external colour Internal finish External finish (tank) Manhole Stainless Steel (500 mm) Food grade gasket Breather (Stainless Steel) Insulation – Shells Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity Line coupling Four game and sale and	Product flow rate	
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Chassis Colour Tanker external colour Uniternal finish External finish (tank) External finish (tank) Manhole Stainless Steel (500 mm) Food grade gasket Breather (Stainless Steel) Insulation – Shells Insulation – Dish Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Chassis/Suspension – Trailing Equipment Suspension Barloworld Blue White Food Grade Finish Cladded White Food Grade Finish Cladded Yes Smm Rockwool 45mm Polyurethane 50 mm Glasswool Yes Ves Ves Outlet piping and Valves Gravity discharge line 4" S/Steel Camlock 4" S/Steel Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)		
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Internal finish External finish (tank) Manhole Stainless Steel (500 mm) Food grade gasket Breather (Stainless Steel) Insulation – Shells Insulation – Dish Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)		Barloworld Blue
External finish (tank) Manhole Stainless Steel (500 mm) Food grade gasket Breather (Stainless Steel) Insulation – Shells Insulation – Dish Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)	Tanker external colour	White
Manhole Stainless Steel (500 mm) Food grade gasket Breather (Stainless Steel) Insulation – Shells Insulation – Dish Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)	Internal finish	Food Grade Finish
Stainless Steel (500 mm) Food grade gasket Food grade gasket Breather (Stainless Steel) Insulation – Shells Insulation – Dish Insulation – Dish Steam Heating CIP (Chained filter and clamps) Gravity discharge line Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)	External finish (tank)	Cladded
Food grade gasket Breather (Stainless Steel) Insulation – Shells Insulation – Dish Insulation – Dish Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension Brakes Rims Aluminium (11.75x22.5)	Manhole	
Food grade gasket Breather (Stainless Steel) Insulation – Shells Insulation – Dish Insulation – Dish Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension Brakes Rims Aluminium (11.75x22.5)	Stainless Steel (500 mm)	Yes
Breather (Stainless Steel) Insulation – Shells Insulation – Dish Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)		Yes
Insulation – Shells Insulation – Dish Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)		Yes
Insulation – Dish Steam Heating CIP (Chained filter and clamps) Yes Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)		5mm Rockwool
Insulation – Dish Steam Heating CIP (Chained filter and clamps) Yes Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)		
Steam Heating CIP (Chained filter and clamps) Outlet piping and Valves Gravity discharge line Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)	Insulation – Dish	
Outlet piping and Valves Gravity discharge line 4" S/Steel Gravity Line coupling Camlock Pump Discharge Line 4" S/Steel Securement of all fittings, couplings, etc S/Steel Chains Valve Balls Locktite Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)	Steam Heating	
Outlet piping and Valves Gravity discharge line 4" S/Steel Gravity Line coupling Camlock Pump Discharge Line 4" S/Steel Securement of all fittings, couplings, etc S/Steel Chains Valve Balls Locktite Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)		
Gravity discharge line Gravity Line coupling Camlock Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)	, and the second	
Gravity discharge line Gravity Line coupling Camlock Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Rims Aluminium (11.75x22.5)	Outlet piping and Valves	I
Gravity Line coupling Pump Discharge Line Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)		4" S/Steel
Pump Discharge Line 4" S/Steel Securement of all fittings, couplings, etc S/Steel Chains Valve Balls Locktite Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)	· -	
Securement of all fittings, couplings, etc Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)	, , ,	
Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)		
Valve Balls Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)	Securement of all fittings, couplings, etc	S/Steel Chains
Chassis/Suspension – Trailing Equipment Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)		•
Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)		
Suspension BPW Air – ALM Brakes Disc Rims Aluminium (11.75x22.5)	Chassis/Suspension – Trailing Equipment	
Brakes Disc Rims Aluminium (11.75x22.5)		BPW Air – ALM
Rims Aluminium (11.75x22.5)		
(11.75x22.5)		Aluminium
,		(11.75x22.5)
O F	King pin	50 mm

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Fire Extinguisher 9 kg	1 (In s/steel holder)
General – Truck Tractor	
MAN 26-440 TGS (Truck Tractor)	
Coupling Height	1,320 mm
Hydraulics	
Hydraulic cooler	Yes
PTO and pump	Yes
Flow rate	60 l/min
Pressure	140 bar
PTO speed 1	700 rpm
PTO speed 2	1,000 rpm
Bumper	Blue RAL5002
Branding	Standard
Standard Equipment	
Stopper block	2
Drive cam	Yes
Tracking	Yes
Tri angles	2
RTMS Board	Yes
Reverse Alarm	Yes

Branding

TBC

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Customer requirement

	Fully drainable tank, outlet pipework and pump housing (if fitted)					
Best Practice Hygienic	Valve type crevice free i.e. use of butterfly valves. (Ball valves or hand					
Design	operated screw-down foot valves are not acceptable)					
	Minimise gap between man way seal and recess.					
	Minimise build-up of food product. Potential stagnant water pockets					
	All working parts and tank internals that are in contact with food product in carriage MUST be contactable within the cleaning process (e.g. check					
	360° cleaning with no obstructions so all round cleaning of valve heads & seatings, tank walls and baffles/partitions)					
	Hygienic design of pressure relief valve(s) and instrument connections					
	(e.g. use of thermo well pockets with temperature sensors) – no exposed					

Filter unit on air compressor line (recommended 5 micron or lower). Filter element must be stainless steel. Paper or other degradable substance is <u>NOT</u> acceptable

All tankers to be fitted with 2mm stainless strainers/ sieves at all discharge

Food Contact Parts	
Metal Surfaces	Stainless steel 304/ 316 fabrication only - smooth surface finish, crevice free welds. Strictly no brass, copper alloys, gun metal or ferrous metals.
Manway/valve seals and	
sealings	Mandatory white food grade; must be inert for the carriage of liquid foodstuffs. Recommend tank internal valves with pneumatic operation, or actuated via external spindle provided the actuation shaft does not intrude or be exposed within the tanker shell – i.e. the shaft sits outside the tank.
Lubricants	NSF Registered lubricants authorised for incidental food contact (H1) must be used in locations in which there is a potential exposure of the lubricated part to food product
Flexible Hoses	All flexible hoses used to connect pipelines during loading and unloading must be of inert material, be suitably reinforced and be of such a length to make cleaning easy. Exposed ends should be capped when not in use. Couplings should be of stainless steel or other inert materials.

Fleet make-up

Sieves/ strainers

4 x MAN 26-440 TGS truck tractors 5 x GRW Tankers

Fleet#	VIN	Lic#	Description	Contract	note
D694	1		MAN 26-440	SD Hudson & Knight	Hydraulic numn with Hydranak

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1	i	•		i i
D685	2	MAN 26-440	SD Hudson & Knight	Hydraulic pump with Hydrapak
D686	3	MAN 26-440	SD Hudson & Knight	Hydraulic pump with Hydrapak
D687	4	MAN 26-440	SD Hudson & Knight	Hydraulic pump with Hydrapak
D688				

Fleet#	VIN	Lic#	Description	Contract	note
DT78	1		GRW - 38000l Semi Tanker	Hudson & Knight	Positive displacement pumps, heating
DT79	2		GRW - 38000l Semi Tanker	Hudson & Knight	Positive displacement pumps, heating
DT80	3		GRW - 38000l Semi Tanker	Hudson & Knight	Positive displacement pumps, heating
DT81	4		GRW - 38000l Semi Tanker	Hudson & Knight	Positive displacement pumps, heating
DT82	5		GRW - 38000l Semi Tanker	Hudson & Knight	Positive displacement pumps, heating

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Cleaning

Cleaning-In-Place (CIP)

Cleaning is achieved by clean, hot water being injected through the CIP system. The recommended time for cleaning is 15 minutes @ 75°C for optimum effectiveness. A safety factor has been built into the current procedures. The current procedures are set at 20 minutes @ 80°C. This is also a total-loss system (Water is used once only). Water is pumped into the CIP system by pressure pump.

The weld finish in the tanker build is certified as "Crevice free - Food grade" and performed by CNC.

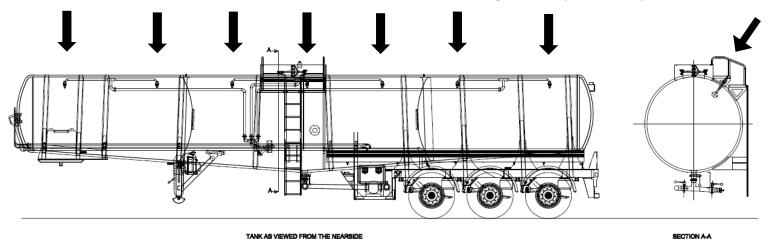


Figure 1 CIP Rotary Ball locations



Figure 2 Spray Ball

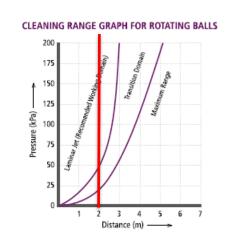


Figure 3 Cleaning Range

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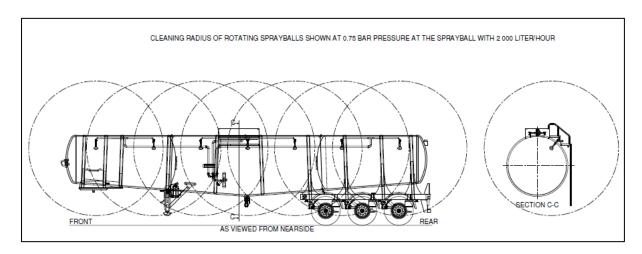


Figure 4 - Effective Cleaning Reach of CIP System

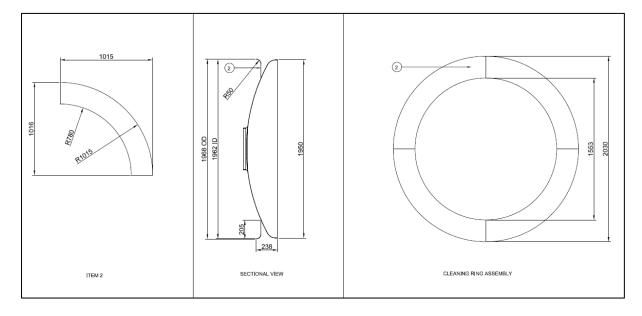


Figure 5 - Cleaning Ring Assembly – Baffles – Designed to ensure CIP efficacy

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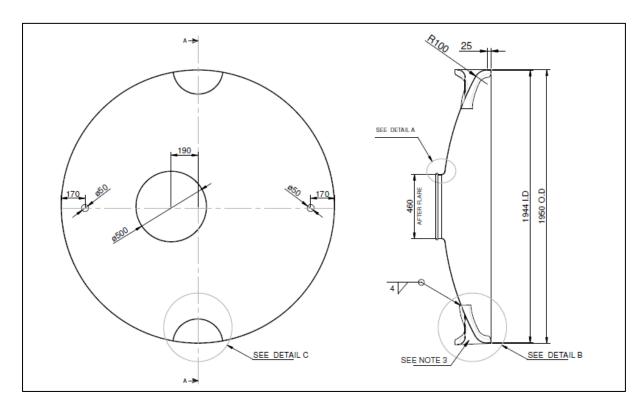


Figure 6 - Baffle Design

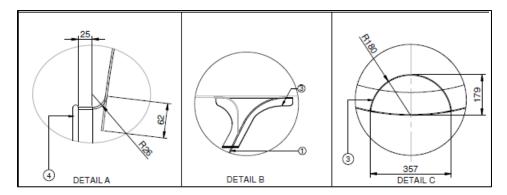


Figure 7 - Baffle Detail – Enlargements

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COMM	IISSIONIN	G CHECK LIST	
Truck Fleet Number -		Tanker Fleet Number –	
Inspection Date			
General – Trailing Equipment			
Positive Displacement Pump	R43 Ro	toflo (316 Stainless Steel)	
Pump Commissioned by Supplier (C	Cyclone In	dustries)	
(1)	T		
"Pup ready"	Yes		
Tanker – Trailing Equipment			
Chassis Colour	Barlow	orld Blue	
Tanker external colour	White		
Internal finish		rade Finish	
External finish (tank)	Cladde		
Manhole			
Stainless Steel (500 mm)	Yes		
Food grade gasket	Yes		
Breather (Stainless Steel)	Yes		
Steam Heating	Yes		
CIP (Chained filter and clamps)	Yes		
Outlet piping and Valves			
Gravity discharge line	4" S/St		
Gravity Line coupling	Camlo		
Pump Discharge Line	4" S/St		
Tamp 2 is small go 2 in c	. 5,55		
Securement of all fittings,	S/Steel	Chains	
couplings, etc			
Valve Balls	Locktit	e	
Off-loading hose	Food G	rade	
Chassis/Suspension – Trailing Equi	-		
Brakes	Disc		
Rims	-	ium (11.75x22.5)	
King pin	50 mm		
Fire Extinguisher 9 kg	1 (In s/	steel holder)	
General – Truck Tractor			
MAN 26-440 TGS (Truck Tractor)	1		
Coupling Height	1,320 r	nm	

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		1
Hydraulics		
Hydraulic cooler	Yes	
PTO and pump	Yes	
Pressure	140 bar	
PTO speed 1	700 rpm	
PTO speed 2	1,000 rpm	
Truck PTO Commissioned by MA	N	
Hydraulic pump and Cooler Com	missioned by Flowsafe	
Bumper	Blue RAL5002	
Branding	Standard	
Standard Equipment		
Stopper block	2	
Drive cam	Yes	
Tracking	Yes	
Tri angles	2	
RTMS Board	Yes	
Reverse Alarm	Yes	
Commissioning Sign off		
Operations		
Technical		
Quality Assurance		

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Contractor Co	mmissioning Inspection	
Truck Fleet Number -	Tanker Fleet Number -	
Inspection Date		
General - Truck		
Certificate of Road worthiness (COR)		
Consul Turilius Faurinassant		
General – Trailing Equipment Certificate of Road worthiness (COR)		
` ,	Chairless Chaol	
Positive Displacement Pump – if fitted	Stainless Steel	
Tanker – Trailing Equipment		
Tanker external finish	Clean/ No damage	
Internal finish (OEM Letter)	Food Grade Finish	
Manhole		
Stainless Steel	Yes	
Food grade gasket	Yes	
Breather (Stainless Steel)	Yes	
Steam Heating – If long distance operation	Yes	
CIP (Chained filter and clamps) operational	Yes	
Outlet piping and Valves		
Gravity discharge line	4" S/Steel	
Gravity Line coupling	Camlock	
Pump Discharge Line	4" S/Steel	
Securement of all fittings, couplings, etc	S/Steel Chains/ welded	
	rings	
Valve Balls	in place	
Off loading hase Cortificate	Food Grade	
Off-loading hose - Certificate	Food Grade	
Fire Extinguisher 9 kg	2 per combination	
	_ pe. ce	
Standard Equipment	'	
Stopper block	2	
Tracking	Yes	
Tri angles (one per vehicle)	2 (3 in case of pup)	
Reverse Alarm	Yes	
Commissioning Sign off		

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Operations	
Technical	
Quality Assurance	

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