

## WHALE TANKERS SPECIFICATION

### 32t VACUUM TANKER - NON HAZ - 304 SS - **EURO 5 (FIVE)**

Date: **24/08/2015**

Customer Quotation No: **65666 Revision 4**

Build No: **34425**

Customer: Regional Waste Recycling

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Manuals and Certificates: As above

Address:

**Whale Contacts:** Chris Anderson 07966 163605 Main Switchboard 0121 704 5700

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**Whale Service:** Service Helpdesk 0121 704 5710

**Whale Parts Aftermarket:** Whale Parts Department - Aftermarket - Parts Direct Tel 0121 704 5720

#### TYPE NON-HAZARDOUS VACUUM TANKER Pressure Vessel Material in **Grade 304 Stainless Steel with Tipping Body**

**Warning:** In certain operational circumstances it is possible that the GVW or individual axle loading of this vehicle could be exceeded. The operator should be made aware of this possibility.

**Chassis:** **FREE ISSUE SCANIA (Needs Pre-registering by Customer)**

**Engine Emissions Level:** **EURO 5 (Five) - so may not be Type Approval**

**Chassis Tonne Rating :** 32 Tonne

**Gearbox Type:** Chassis Gearbox to be a suitable semi automatic or fully automatic gearbox complete with a chassis manufacturer fitted PTO (Power Take Off) - Whale Tankers will advise suitable PTO model and ratio reference codes to suit your application.

**Drive:** ((See Nick Cole)) or Chris Anderson

**Axle Configuration:** ((See Nick Cole)) or Chris Anderson

**Chassis Dealer:** ((See Nick Cole)) or Chris Anderson

**Contact:** ((See Nick Cole)) or Chris Anderson

**Contactable on:** ((See Nick Cole)) or Chris Anderson

**Exhaust:** OEM factory supplied and fitted overhead discharge system, clear of all PTO outlets.

**Height Limit:** **NONE ADVISED by Customer - maximum height limit of 4 metres**

#### SYSTEM CONTROL: ADVANCED WHALE PLC CONTROLLER

#### TANK:

**Material:** **Stainless Steel Grade 304 - Cold Rolled - up to first flange**

**Tank Capacity:** **4000 Gallons Dirty - 200 Gallons Clean Grade 304 SS**

**Tank Ring Material:** 50mm x 10mm Carbon Steel Stiffening Rings

**Internal Finish/Coating:** Self Colour - Natural Finish

**Shape/Thickness:** Cylindrical / 4.00mm

**Specific Gravity:** 1.0

**Contents:** Sewage and other non-hazardous sludge's.

**Tipping Body Hydraulic Ram:** Single front mounted multi-stage ram, tipping hinge to rear.

**Safety Body Prop:** Integral Body-prop, operated from Nearside.

**Mountings:** Ram Cradle at front with tipping hinges at rear

**Fall over length:** Parallel to chassis

**Tipping Body Status Indicator:** Visual warning in cab to alert driver if overhead equipment or tipping body is not stowed correctly. To comply with regulations Construction & Use 1986 Amendment SI 1997 No 530

**Subframe:** Full length subframe if required by chassis manufacturer



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**Baffles:** 2-off anti-surge walk through type

**Front End:** Torispherical dished and flanged to BS EN 13445-3:2002

**Rear Door:** Hydraulic operated torispherical door with **LARGE Rear Debris chute for ease of operation when unloading .COMPLETE with Manually operated door safety prop.**

**Type of Door Clamps:** Hydraulic operated door clamps with control on nearside

**Manhole:** 1-off 500mm St St dia. 6 clamp manhole with access ladder & platform

**PRV:** Tank-top Whale patented PRV, piped to ground with cable pull

**PRV:** In-line Whale PRV, PTFE components locked, sealed & set - piped to ground

**Gauges:** Combined vacuum pressure calibrated in working pressure & vacuum

**CONTENTS INDICATOR:**

**Sight Glass:** Full length 3" dia. acrylic sight glass with cleaning & rodding access. With isolation valves

**VALVES:**

**Outlet Valve:** 6" Air operated Valve

**Valve position:** Mounted in base of rear door/dish

**Outlet connection:** 4" Bauer with blank cap

**Seal Breaker Valve:** 25mm diameter valve fitted in pipework between valve and hose connection on outlet valve

**Inlet Valve:** 4" Molex Manual Ball Valve

**Valve position:** Mounted in base of rear door/dish

**Inlet connection:** 4" Bauer with blank cap

**Seal Breaker Valve:** 25mm diameter valve fitted in pipework between valve and hose connection on inlet valve

**Stack Pipe:** Internal stack pipe fitted to Inlet Valve

**Overspill Valve:** 100mm air operated valve interlinked to PTO

**Vent Valve:** 65mm air operated gate valve interlinked to hand brake

**Low Volume Jetting**

**Divisions:** One to give 200 galls water compartment with 20" bolted access plate

**Sight Glass:** 2" diameter full depth acrylic sight glass in front compartment.

**Water Intake:** Approved no back syphon hydrant filler - std 2.1/2" quick coupling

**Jetting Pump:** Orca high pressure pump (up to 10gpm @ 2000psi)

**Drive:** Hydraulic over mechanical with automatic engine speed setting.

**Hose reel:** **Hydraulically-operated reel rear facing away from the splash out of the tank when emptying including free wheel facility with 100m x 1/2" high pressure hose**

**Equipment:** Forward facing & retro nozzles, 1m handlance with fan and needle nozzles

**Protection:** Low water warning device with automatic water-dumping circuit



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- Exhauster:** Water cooled exhauster/compressor. Output 910 cfm free air Jurop PR250  
 : System Deoiler  
 : Vacuum pump controls fitted at rear
- Drive:** Mechanical with automatic engine speed setting
- Cut-off:** Primary and secondary overspill canister with cut-out & 1 1/2" drain
- Protection:** Suction side gritstrainer and check valve
- Control:** External ergonomic controls fitted at operator workstations. Air operated changeover for vacuum or pressure selection, on nearside  
 : Emergency Stop at the Workstation

**STORAGE SECTION:**

- Nearside Hose Storage:** FULL LENGTH hose tray with tank protection strips and hose straps in Carbon Steel
- Offside Hose Storage:** FULL LENGTH hose tray with tank protection strips and hose straps in Carbon Steel
- Mudflaps:** Spray Suppression
- Mudguards:** Steel mudguards
- Cone Spike:** Cone spike to take 5 off 750mm high cones (Motorway use)
- Stainless Steel Locker 1 off:** Stainless Steel Locker 800mm x 400mm x 350mm (Standard)

**SUCTION HOSES:**

- Hose type:** NONE

**LIGHTING:**

- Beacon Type:** 1 off 24 volt Amber Beacon BULB Type and Integral Branch Protection
- Beacon Position:** Off Side Rear
- Additional Beacons:** 1 off extra 24 volt Amber Beacon BULB Type and Integral Branch Protection
- Positioned :** Near Side Rear
- Worklight Type:** 1 off 24 volt Worklight BULB Type
- Worklight Position:** At Rear "Over the work station" mounted on the Dish
- Additional Worklights:** 3 off Extra 24 volt Worklight BULB Type
- Positioned :** 1 x Off Side Rear mounted on Dish, 1 x Near Side Front mounted on tank to illuminate the tray, 1 x Off Side Front mounted on the tank to illuminate the tray

**GENERAL:**

- Regulations:** Construction and Use 1986 (as amended)  
 : Statutory instrument 2000 No.128 reg 4 (Pressure Systems Safety Regulations)  
 : The supply of machinery (safety) regulations 2008: SI 2008 No.1597  
 : Noise emission in the environment directive 2000/14/EC
- PER / PED:** To comply with The Pressure Systems Regulations SI 1999 No. 2001 as amended by SI2002:1267 Directive No 97/23/EC
- Data Plate:** Tank data plate (CE marked ) as required by SI 2000 No.128 reg 5 (4)
- Quality Assurance:** Independently monitored by notified body for conformity of assessment, Hydraulic test to 1.5 bar (23PSI) / full vacuum
- Operating pressure/vacuum:** Pressure - 1 bar (15 PSI) Vacuum - 1 bar (28"hg)
- Certificates supplied:** Declaration of conformity PER / PED 97/23/EC  
 : Declaration of conformity for fitness and quality  
 : Declaration of conformity to UK machinery (safety) regulations SI 2008 No.1597  
 : Certificate of hydraulic test  
 : Certificate of noise emission measured / guaranteed power level  
 : Vehicle weight ticket supplied
- Insurance:** £15 million products liability cover
- Labels/ Handbook:** Safety labels fitted to vehicle as required and Operator handbook supplied
- Commissioning:** One day vehicle commissioning instruction
- Delivery:** Standard Delivery UK
- On Line Documentation:** Vehicle Technical file & certification available on secure on line application. (See enclosure) PDF File



## WHALE TANKERS SPECIFICATION

### 32t VACUUM TANKER - NON HAZ - 304 SS - **EURO 5 (FIVE)**

PAINTWORK	PAINT SPECIFICATION	REF
<b>Production Number : 34425</b>		
<b>Customer Name : Regional Waste Recycling</b>		
<b>TANK</b>		
<b>Internal:</b>	Grade 304 Cold Rolled - Self Colour	
<b>External Tank Finish:</b>	Shotblast, Primed & finish painted <b>one colour WHITE</b> , 2 pack high build acrylic paint	<b>TO MATCH CAB</b>
<b>Front Dish:</b>	Finish - <b>one colour BLUE</b> ,in two pack high build acrylic coating using a different Colour to the Tank Barrel	<b>RAL5015</b>
<b>Rear Door:</b>	Finish - <b>one colour BLUE</b> ,in two pack high build acrylic coating using a different Colour to the Tank Barrel	<b>RAL5015</b>
<b>Chevrons/Stripes:</b>	None	
<b>Steel Mudguards:</b>	As Tank	
<b>Cab Finish:</b>	OEM Factory Finish	
<b>Front Bumper:</b>	OEM Factory Finish	
<b>Cab Wings:</b>	OEM Factory Finish	
<b>Chassis Finish:</b>	Preparation - degrease, Steamclean and flat existing paint - Chassis Polyurethane <b>BLUE</b>	<b>RAL5015</b>
<b>Paint Inspection:</b>	100 microns dry film build (elcometer gauge)	
<b>Wheel finish:</b>	OEM Factory Finish	
<b>Conspicuity Markings:</b>	Conspicuity Markings to UN ECE Reg 48 SI 2009 No 3220, white on front and red on rear. <b>Amber on sides</b>	
<b>Signwriting:</b>	Signwriting not included - Separate quote provided on request	
<b>Sign Boards:</b>	Signboards - None Selected	
<b>ADDITIONAL INFORMATION</b>		
<b>APPROVED BY PAINTSHOP</b>		

**OTHER FEATURES:**

- Rear Under-run Protection:** Type Approved Underun Bumper
- Side Guards:** Side guards fitted
- : **London cyclist protection system fitted including side camera**
  - : **Whale to supply and fit LED Cycle Board: LED Cyclist Warning Board - Whale Part No 158340**
- Reversing Bleeper:** Audible reversing bleeper
- Handwash Unit:** Electrically heated handwash unit
- Overall Height:** Overall Height Label/Sticker in Cab
- PTO Disengagement:** Automatic PTO disengagement linked to handbrake

**Flushing Bar** Internal Flushing bar in 2" Diameter Stainless Steel tube with 6 off Outlets in the bottom third of the tank at the front. Outlets to be facing backwards towards the door and be fitted with layflat hose so that the debris does not block the tube and outlets while not in use.

The Flushing bar is fed from an external source via a Standard 2.5" instantaneous coupling and isolation valve fitted in the side of the tank on the nearside.

**END OF BUILD SPECIFICATION**

