



<b>DEO GLORIA call name</b>	<b>PBCZ</b>
Length o.a.	71.40 m
Length l.l.	68.00 m
Width	14.00 m
Depth moulded	3.80 m
Gross Tonnage	1512 T
Diameter suction pipe	650 mm
Number of suction pipes	1
Suction pipe installation	SB
Hopper volume top coaming	1276 m <sup>3</sup>
Hopper volume front	562 m <sup>3</sup>
Hopper volume rear	714 m <sup>3</sup>
Bottom doors	1 front hopper 1 rear hopper
Barge loading system	Yes
Barge loading system	Ø500 mm
Dredge pump power	1*716 – 1600 kW/rpm
Jet pump engine	1*474 – 1800 kW/rpm
<b>Cargo holds:</b>	
Cargo holds	2
Front hopper hold	1 x 562.131 m <sup>3</sup>
Rear hopper hold	1 x 713.727 m <sup>3</sup>
Total cargo hold	1275.858 m <sup>3</sup>
Front hopper hold	1 x bottom door Size 17.40 x 7.55 m top Size 15.00 x 3.55 bottom
Aft hopper hold	1 x bottom door Size 21.00 x 7.55 m top Size 21.00 x 3.55 bottom
Bottom door front size	3.40 x 2.5 m
Bottom door aft size	3.40 x 2.5 m
<b>Dredging installation:</b>	
<b>Sandpump:</b>	
A pump room is situated in the midsection of the ship containing:	
Bagema pump	Type 60/60 cap. 6000 m <sup>3</sup> /hr powered by Caterpillar 3508b, 975 pk (716 kW) 1600 rpm
Blade impeller	4 x Ø1240 mm
Pump	Width 445 mm
Blade of impeller	390 mm
Reintjes gearbox	Type 542 reduction 4,5 : 1 year 2003
<b>Jet pump:</b>	
Pump .....	Type ngt-1-300400 cap. 1500m <sup>3</sup> /hr suction door bottom
	Powered by Caterpillar 3412E, 645 hp (474kW)/ 1800 rpm



<b>Dredge pipe:</b>	
Dredge pipe star board	Ø 650 mm. length 25 m pipe with hinge points in front and mid-section.
	Pipe has a pressure pipe for jet water of 200 mm.
	Pipe has hydraulic winches and 3 beams for lowering and lifting the pipe, a seagoing swell compensator to execute dredging with a swell of maximum 2.50 m
<b>Sieve installation:</b>	
Sieve installation is collapsible on the mid ship and can be used for dredging harbours or other	Possible to sieve the sand from shells and other coarse material
<b>Discharge units:</b>	
For discharging in barges or any other kind of ship or harbours a vertical and horizontal discharge pipe is available of Ø500 mm, remote controlled from the bridge	
Every cargo hold has a bottom door to dump mud or sand or any other dredging material.	
<b>Propulsion:</b>	
Year of construction	2005
Brand	Caterpillar
Power	2 x 716 kW (2 x 975 hp)
Type	3508 B
RPM	Max. 1600
Number	S2e00390 and s2e00391
Gearbox year of construction	2005 2 x Twin disk, type MG5301 Reduction 4,961:1
Propeller shaft	2 x oil bath shafts with seals
Ø propeller	170 cm with nozzles
Main engines	2*716 – 1600 kW/rpm
Rudders	1,80 x 1,92 m
<b>Auxiliary machinery and installations:</b>	
<b>Generator sets:</b>	
Main engine room	120 kVA 220/380 Stamford generator powered by Perkins diesel engine 1500 rpm
Main engine room	140 kVA 220/380 generator powered by caterpillar 6 cylinder
Pump room	100 kVA 220/380 generator powered by Perkins
<b>Pumps main engine room:</b>	
Fuel trim pump	Powered by 380 V
Dirty oil pump	Powered by 380 V
General pumps	1 x powered by 380 V
Fire pump	1 x powered by 380 V
Bilge pumps	2 x powered by 380 V
Air compressor	380V



<b>Pumps pump room mid-section:</b>	
General pump	380V
Seal pumps	1 x hydraulic powered pump
Air compressor	1 x 380V
<b>Bow thruster:</b>	
Brand: van Ballegooy	360° turnable with horizontal propeller, powered by 6 cylinder 2000 RPM Scania diesel engine 316 kW (470 HP), water cooled. Ø propeller: 120 cm
<b>Accommodation:</b>	
Cabins	5 x 2 beds, 10 persons sleeping space
Toilets	2
Shower	1
Mess room	1
Galley	1
Laundry space	1
Food storage	1
Bridge with administration office chart table / entrance port- and star board side	
<b>Nautical equipment:</b>	
Radar	Furuno type rcu – 014
Auto pilot	Radio Holland type sea pilot 75 and pilot type Eco 600
Turn indicator	Radio Zeeland type RZ300
Radios	Sailor VHF type 2048 and Sailor VHF DSC type RT 5022
Depth meter	Furuno type FE-700
Intercom	Portable radios
Compass	Furuno satellite compass SC60
GPS	Furuno type GP-90
ECDIS	2 x Transas, type?
Navtex	JRC – NCR333
AIS	Furuno AIS type FA-100
Radar transponders	2 x Tronsart
Magnetic compass	Approved 05-06-2013
<b>Main engine room:</b>	
Drinkwater (potable)	2 x 10,7 m <sup>3</sup>
Port diesel fuel	36.1 m <sup>3</sup>
Starboard	36.1 m <sup>3</sup>
Centre	41,3 m <sup>3</sup>
Day	2 x 2800 litre
Lube Oil	4 m <sup>3</sup>
Hydraulic Oil	0,5 m <sup>3</sup>
Dirty Oil	4,07 m <sup>3</sup>
Sewage (black)	7,23 m <sup>3</sup>
Sewage (grey)	7,23 m <sup>3</sup>
Total storage on the ship of diesel fuel	119,1 m <sup>3</sup>



<b>Tanks pump room:</b>	
Day tank diesel fuel	3,1 m <sup>3</sup>
Lube Oil	0,62 m <sup>3</sup>
Hydraulic oil	1,5 m <sup>3</sup>
Dirty Oil	0,62 m <sup>3</sup>
<b>Bow thruster room:</b>	
Diesel fuel day tank	2,0 m <sup>3</sup>
<b>Anchors at bow:</b>	
Pool anchors	2 x 1305 kg.
Chain length	??
<b>Safety equipment:</b>	
Rubber MOB boat	Powered by Yamaha 25 hp
Life rafts	2 x 10 people situated on the bridge port and starboard side
Fixed foam installation	Main engine room
CO <sup>2</sup> installation	Pump room
Powder CO <sup>2</sup> extinguishers	All compartments
Alarm system	Engine rooms, accommodation, bilge, tanks, fuel tanks etc.
Gangways	2 x 3 and 6 m
<b>Lowerable masts:</b>	
Height mast up keel to top:	
- Aft mast:	18,5 m
- Forward mast:	18,5 m
Height of the ship can be reduced to:	
- Ship full of water or loaded	Reduced height to 8,40 m
- Empty ship height	Reduced height to 9,48 m
<b>Minimum Safe Manning:</b>	
	<b>5 persons</b>
	<b>30 miles from the coast</b>
	<b>12 hrs from working harbour</b>
Captain	1
Chief mate	1
3 <sup>rd</sup> Engineer	1
a/b	2
<b>Consumption of diesel oil:</b>	
Consumption of diesel oil in full working hours (dredging or sailing at full speed?)	325 litre/hr