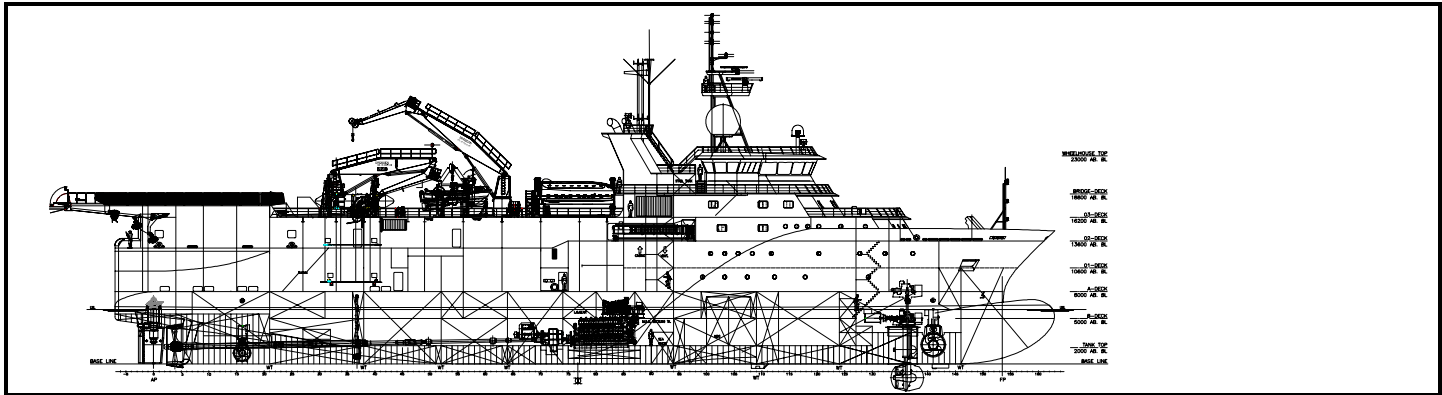
 <b>FACTORIAS VULCANO, S.A.</b>		RESEARCH VESSEL FILING CARD		IMO n°:	9378204
		Name:	Owner / Broker:	Build. no.	Stud. no.
<b>POLAR DUKE</b>	<b>ARMADA SEISMIC INVEST I AS</b>	<b>532</b>	<b>0</b>		
Cargo Capacity:	Country:	Filing Card	Date	<b>24-05-11</b>	
<b>2800 DWT</b>	<b>CYPRUS</b>		Rev.	<b>9</b>	
REFERENCE	Type:	Built date:	Page:		
<b>CBV0532 VOC</b>	<b>MULTI-STREAMER SEISMIC RESEARCH VESSEL</b>	<b>2008</b>	<b>1</b>		



Survey:	<b>D.N.V.</b>	Classed:	<b>1A1, E0, HELDK-SH, NAUT AW, RP, VIBR, TMON, COMF-V(2)</b>	Ice:	<b>-</b>
---------	---------------	----------	--	------	----------

MAIN PARTICULARS (m)		TONNAGES (Tons)		CAPACITIES (m3)		OUTPUT / SPEED / RANGE	
Length Overall	<b>106,80</b>	GT (IMO 69)	<b>7689</b>	Heavy Fuel	<b>1450</b>	Output (KW)	<b>12.000 bkW</b>
Length B. Perp.	<b>92,10</b>	NT (IMO 69)	<b>2307</b>	Diesel Oil	<b>365</b>	% MCR - % Sea	<b>80% - 0%</b>
Breadth mould.	<b>19,20</b>	DWT (summer draft)	<b>2800</b>	Lub Oil	<b>80</b>	Speed trial (KN) // Draft (m)	<b>18 // 6,00</b>
Depth mould.	<b>8,00</b>			Fresh Water	<b>173</b>		
Design draught	<b>6,00</b>			Ballast Water	<b>1140</b>		
Summer draught	<b>6,50</b>	TPC/I	<b>16</b>	Passive anti-rolling tank	<b>99</b>	Range (nm)	<b>11.300</b>
Crew + Special per	<b>22 + 38</b>			Kerosene	<b>50</b>	Consumption t/day (MDO)	<b>55 t/day</b>

SPECIAL INSTALLATIONS	INSTRUMENT. EQUIPMENT	DECK MACHINERY & EQUIPMENT
Helicopter deck for Sikorsky S-92		Windlass 2 x Windlass with de-clutchable cable lifters & mooring winch
Accommodat. 60 pers. in 36 single and 12 double bunk cabins		Capstans 2 x Capstans-Pull = 10 t SWL @ 20 m/min
Joystick system modes: joystick, auto heading and autopilot		Winch 4 x mooring winches - Speed = 60 m/min
Kerosene system with: tanks, drain system, kerosene Separator,...		Stern gate 1 x hydr. operate stern gates (2 cylinder)
Seismic HP Air Compressors (part of Air gun System)		Crane 2 x Handling cranes: 12,0 t SWL @ 12m
3 x High Pressure Compressors - Discharge pres. =207 bar		
Air receiver storage rack		
Seismic Work Boat:		Crane 2 x Provision cranes: 1,5 t SWL @ 10m
1 x L = 7.77 m B = 2.87 m T = 1,2 m		Lifeboats 2 x covered lifeboats - cap = 60 pers
One (1) Cable Retrieval rig & One (1) single drum Streamer winch		MOB boat 1 x Fast Rescue boat - cap = 10 pers

MACHINERY AND AUX. ENGINES	SPECIAL DECK SEISMIC EQUIPMENT
Father Engine (Desing / Type)	Design ODIM
Output (kW) / r.p.m.	12 Streamer winches (6 Double)
Son Engine (Desing / Type)	12 Spooling devices (6 Double)
Output (kW) / r.p.m.	8 Streamer storage winches hanging (4 Double)
Gear Box (Desing / Type)	8 Streamer storage winches (4 Double)
Reduction ratio / PTO (kW)	10 Single storage drums
Propeller (Desing / Type)	12 Streamer towing points with blocks.
Blades Ø (mm) / Speed (r.p.m.)	12 Streamer trays with traction chutes
Shaft Alter. (Desing / type)	1 Transverse Towing Point system, with 2 hyd. winches.
Output (kVA / rpm / V / Hz)	10 Gun winches (5 Double)
Steering gear (Design / Torque)	Source storing rail system (Overhead Craneway System)
Rudder ( Design / Area / Angle )	Handling systems for Air gun arrays
Bow thruster ( Design / Ø / kW)	1 Double drum winder ISO fixed
Azimuth thruster ( Design / Ø / kW)	2 Spooling racks for standard cable drums.
Aft thruster ( Design / Ø / kW)	15 3 tons handling winches
Emerg. Genset (Desing.-kW/ rpm)	2 Hydraulic Power packs
Aux/Harb. Genset (Desing.-kW/ rpm)	Deflector Handling and Storage system.
Fecha: 01-01-06	Formato: V - 061 Revisión: 0