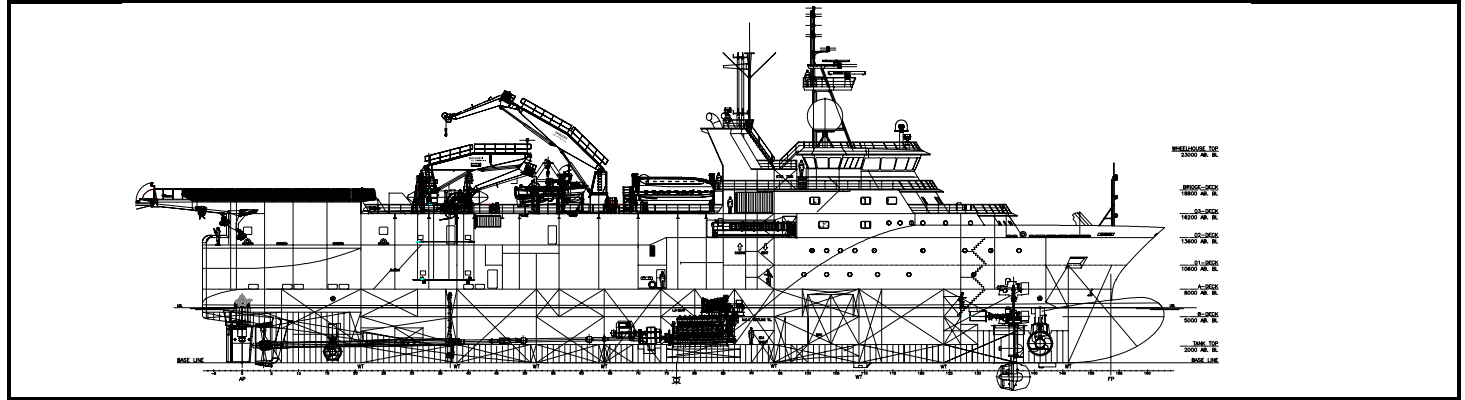
 FACTORIAS VULCANO, S.A.	RESEARCH VESSEL FILING CARD		IMO number: 9378216
	Name: POLAR DUCHESS	Owner / Broker: ARMADA SEISMIC INVEST II AS	Build. no. 533 Stud. no. 0
	Cargo Capacity: 2800 DWT	Country: CYPRUS	Filing Card
REFERENCE CBV0533 VOC	Type: MULTI-STREAMER SEISMIC RESEARCH VESSEL	Built date: -	Page: 1



Survey: D.N.V.	Classed: 1A1, E0, HELDK-SH, NAUT AW, RP, VIBR, TMON, COMF-V(2)	Ice: -
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MAIN PARTICULARS (m)		TONNAGES (Tons)		CAPACITIES (m3)		OUTPUT / SPEED / RANGE	
Length Overall	106,80	GT (IMO 69)	7689	Heavy Fuel	1450	Output (KW)	12.000 bkW
Length B. Perp.	92,10	NT (IMO 69)	2307	Diesel Oil	365	% MCR - % Sea	80% - 0%
Breadth mould.	19,20	DWT (summer dr)	2800	Lub Oil	80	Speed trial (KN) // Draft (m)	18 // 6,00
Depth mould.	8,00			Fresh Water	173		
Summer draught	6,00			Ballast Water	1140		
Scantling draught	6,50	TPC/I	16	Passive anti-rolling tank	99	Range (nm)	11.300
Crew + Scientific	60			Kerosene	50	Consumption t/day (MDO)	55 t/day

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 gate (2 cylinder)
Seismic HP Air Compressors (part of Air gun System)		Crane	2 x Handling cranes: 12,0 t SWL @ 12m 6 t SWL @ 17m
3 x High Pressure Compressors - Discharge pres =207 bar		Crane	2 x Provision cranes: 1,5 t SWL @ 10m
Air receiver storage rack		Lifeboats	2 x covered lifeboats - cap = 60 pers
Seismic Work Boat:		MOB boat	1 x Fast Rescue boat - cap = 10 pers
1 x L = 7.77 m B = 2.87 m T = 1,2 m			
One (1) Cable Retrieval rig & One (1) Twin drum Streamer winch			

MACHINERY AND AUX. ENGINES		SPECIAL DECK SEISMIC EQUIPMENT	
Father Engine (Desing / Type)	2 x Diesel Engine MAN B&W / 9L 32/40	Design	ODIM
Output (kW) / r.p.m.	4500 kW / 750 r.p.m.	12	Streamer winches (6 Double)
Son Engine (Desing / Type)	2 x Diesel Engine MAN B&W / 6L 32/40	12	Spooling devices (6 Double)
Output (kW) / r.p.m.	3000 kW / 750 r.p.m.	8	Streamer storage winches hanging (4 Double)
Gear Box (Desing / Type)	2 x twin input - single output Flender / Navilus GVQII 1250	8	Streamer storage winches (4 Double)
Reduction ratio / PTO (kW)	High speed 750:156 - Low speed 750:127 / 2200 kW	10	Single storage drums
Propeller (Desing / Type)	2 x CPP Kamewa Ulstein / OD-70F-102XF5/4E-3900N	12	Streamer towing points with blocks.
Blades Ø (mm) / Speed (r.p.m.)	3900 mm Ø four blades / High speed: 156 mm - Low: 127 rpm	12	Streamer trays with traction chutes
Shaft Alter. (Desing / type)	4 x 2200 kW Leroy Somer LSA54 M8	1	Transverse Towing Point system, with 2 hyd. winches.
Output (kVA / rpm / V / Hz)	2750 kVA / 1200 r.p.m. / 690 V / 60 Hz	10	Gun winches (5 Double)
Steering gear (Design / Torque)	2 x Tenford Rotary Vane Type SR742-FCPx2 / 433 kNm		Source storing rail system (Overhead Craneway System)
Rudder (Design / Area / Angle)	2 x Ulstein Hinze Flap / 10,5 m² / 45°		Handling systems for Air gun arrays
Bow thruster (Design / Ø / kW)	1 x Kamewa Ulstein TT2400 DPN CP / 2430 mm / 1200 kW	1	Double drum winder ISO fixed
Azimuth thruster (Design / Ø / kW)	1 x Ulst. Aquamaster UL 2001 CP / 2300 mm / 1500 kW	2	Spooling racks for standard cable drums.
Aft thruster (Design / Ø / kW)	1 x Kamewa Ulstein TT1650 DPN CP / 1680 mm / 750 kW	15	3 tons handling winches
Emerg. Genset (Desing.-kW/ rpm)	1 x LIAG/MAN - 250 kW / 1800 rpm	2	Hydraulic Power packs
Harbour Genset (Desing.-kW/ rpm)	1 x Mitsubishi S12R 1412 kVA 1800 rpm		Deflector Handling and Storage system.
Fecha: 01-01-06		Formato: V - 061	Revisión: 0