



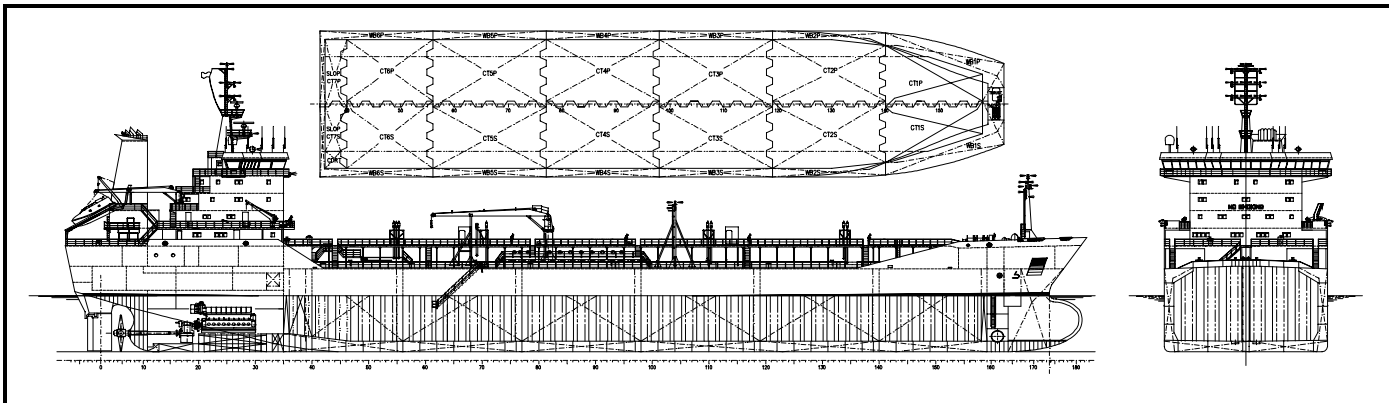
**FACTORIAS
VULCANO, S.A.**

CHEMICAL & OIL TANKER VESSEL- FILING CARD

Name: MAR ELENA	Owner / Broker: W.W. MARPETROL S.A.
Cargo Capacity: 19500 M3.	Country/ Flag: SPAIN
Type: CHEMICAL & OIL TANKER	IMO 2

Nº IMO:	
Build. no. 481	Stud. no.
Filing Card	Date: 27.01.03 Rev.: 2
Built date: 2002	Page: 1

REFERENCE
CBTO481 TQM



Survey: **L. R.** Classed: **+100 A1 Chemical & oil Tanquer, NAV 1, + LMC, UMS** Ice Class: **1A**

MAIN PARTICULARS (m)		TONNAGES (Tons)		CAPACITIES (m3)		OUTPUT / SPEED / RANGE	
Length Overall	144,05	GT (IMO 69)	11377	Cargo Tanks	19000	Output (KW)	6480
Length B. Perp.	133,80	NT (IMO 69)	5600	Slop Tanks	500	% MCR - % Sea	100/ 0
Breadth mould.	23,00	DWT (d. Sum.)	18500	Heavy Fuel	550	Speed trial (KN) // Draft	15.35 / 8,4
Depth mould.	12,40	DWT (d. Sct.)	18500	Diesel Oil	80	% MCR - % Sea	85/15/400 KW.
Summer draught	9,50	Displacement (9.5)	24266	Lub Oil	50	Speed serv. (KN) // Draft	14,5 / 8,4
Scantling draught	9,50	Lightweight	5766	Fresh Water	200	Range (nm)	8000
Crew- Passage	18 + 1	TPC/I	29	Ballast Water	8000	Consumption t/day (F/D)	23.9 H.F.O.

CARGO TANK CAPACITIES (98%)						SEGREGATIONS		CARGO HANDLING			
Total (+ Slop)	Units	IMO	Cap.m3	Pres.bar	Gra.T/m3	No. segregations	6+1 (slop)	Pumps	Hydraulic:	Electric:	X
	14	2	19500	0,2	1,54	Cap.m3 Epoxy	19500	Total	14	--	--
	In Centre	0	0	-	0	Cap.m3 Zinc	0	D. Weel	12	280 m3/h	12 bar
	In Wing	14	0	0	-	Cap.m3 Poly	0	Slop	2	80 m3/h	12 bar
On Deck	-	-	-	-	Cap.m3 S/Steel	0	Ballast	2	500 m3/h	2 bar	
SAFETY AND OTHER DETAILS						CARGO LIST		Drain	1	75 m3/h	8 bar
Foam generators	0 of		0	at	0	1.- IMO 2 & 3	Heating system	THERM. OIL			
Tank washing	29 of		20	at	9	2.- 0	Temp.in °C	+ 80			
						3.- 0	Hose handling crane	5 t - 17 m.			
						4.- 0	Provision Crane	3.5 t - 12 m.			

MACHINERY AND AUX. ENGINES				SPECIAL EQUIPMENT		ANOTHER EQUIPMENT	
Engine (Desing / Type)	MAN B & W		9L40/54	Integrate Nav. Bridge	0	Iner Gas System	X
Output (KW) / r.p.m.	6480		550		Bridge Control System		X
Gear Box (Desing / Type)	RENK TACKE		HSU-1200	Joystick	0	Manifold center	X
Reduction / Par	5,5:1		0	Radar Type Ullage	X	Manifold aft	X
Propeller (Desing / Type)	ALPHA MAN VBS 1460		CONTROL.	Central. Cargo Operation	X		
Blades Ø / r.p.m.	5400		100	Heavy Cargoes	0		
Bowthruster dia. // Kw	ROLLS-ROYCE		TT 1300-CP KI	Hazardous Cargoes	X		
Bowthruster Ø / KW	1300		575	Bowthruster	X		
Aux.Dies.Eng.(Desing.-KW./Typ)	(4) VOLVO PENTA-390		TAMD 162 C	Antiheeling System	0		
Alternator (Desing.-KW/rpm)	(4) STAMFORD - 370		1800	DOCUMENTACION			
Aux.Dies.Eng.(Desing.-KW./Typ)	0		0	Especificación	(Re/ Co -In/ Es)	C-I/E	
Alternator (Desing.-KW/rpm)	0		0	Planos	(Dis/For/Mae/Hi)	D/F/M/H	
Shaft Alter. (Desing.-KW/rpm)	(1) STAMFORD - 1360		1800	Cálculos	(Cap/Est/Pot/Bal)	C/E/P/B	
Harbour/Emer.(Desing.-KW./Typ)	(1) VOLVO PENTA - 175		TMD 102 C				
Alternator (Desing.-KW/rpm)	(1) STAMFORD - 165		1800				
Thermal oil heater (Desing/KW)	(2) GEKAKONUS THZ 30/40		3800				
Fecha: 25 - 11 - 98				Formato: V - 059			Revisión: 0