



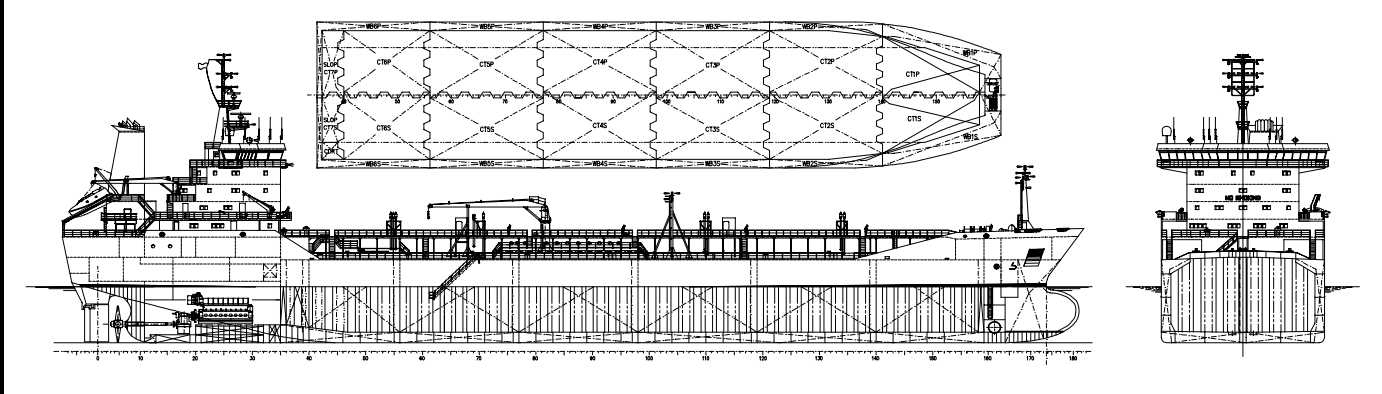
**FACTORIAS
VULCANO, S.A.**

CHEMICAL & OIL TANKER VESSEL- FILING CARD

Name: MAR ADRIANA	Owner / Broker: W.W. MARPETROL S.A.
Cargo Capacity: 19500 M3.	Country/ Flag: SPAIN
Type: ST. STEEL (AVESTA 2205) CHEMICAL TANKER	IMO 2 IMO 2

Nº IMO: 9182796	Build. no. 477	Stud. no.
Filing Card	Date: 01.03.02 Rev.: 5	
Built date: 2002	Page: 1	

REFERENCE
CBTO477 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.)	18736	Heavy Fuel	550	Speed trial (KN) // Draft	15.35 / 8,4
Depth mould.	12,40	DWT (d. Sct.)	18736	Diesel Oil	80	% MCR - % Sea	85/15/400 KW.
Summer draught	9,50	Displacement (9,5)	24326	Lub Oil	50	Speed serv. (KN) // Draft	14.5 / 8,4
Scantling draught	9,50	Lightweight	5590	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	1,84	Cap.m3 Epoxy	0	Total	14	--	--
	0	0	0	-	0	Cap.m3 Zinc	0	D. Weel	12	280 m3/h	12 bar
	14	0	0	-	0	Cap.m3 Poly	0	Slop	2	80 m3/h	12 bar
In Centre						Cap.m3 S/Steel	19500	Ballast	2	500 m3/h	2 bar
In Wing								Drain	1	75 m3/h	8 bar
On Deck											
SAFETY AND OTHER DETAILS						CARGO LIST					
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					
Output (KW) / r.p.m.	6480		550		Bridge Control System		X	Steam Generator			
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					
Propeller (Desing / Type)	ALPHA MAN VBS 1460		CONTROL.	Central. Cargo Operation	X						
Blades Ø / r.p.m.	5400		100	Heavy Cargoes	0						
Bowthruster (Desing / Type)	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					