

**REDERI AB VERITAS TANKERS SHIP PARTICULARS**

Ship's Name		M/T ASTRAL				
Owner / Manager		REDERI AB VERITAS TANKERS,				
Full Adress		Tjärebergsvägen 10, SE-430 82 Donsö, Sweden		SHIP COMMUNICATION DETAIL		
TEL:		+46 31 97 33 50				
E-Mail		info@veritastankers.se				
D.P.A		William Fhager +46 704 441236		e-mail		master@astral.veritastankers.se
Official No:	IMO Number	MMSI No:	Call Sign	Nationality	Port of Registry	
9371878	9371878	266 266 000	SLHJ	SWEDEN	DONSÖ	
Ship Type	IMO TYPE II CHEMICAL TANKER & OIL TANKER					
Ship Builder	Torlak shipyard - Tuzla/Istanbul, Hull No:47					
Class Society	BUREAU VERITAS					
Class Notation	I+HULL+MACH OIL; TANKER ESP; CHEMICAL TANKER ESP; UNRESTRICTED					
	NAVIGATION+AUT-UMS,CLEAN SEA, CLEAN AIR, ICE CLASS 1A, MOON-SHAFT VCS; IG					
Delivery Date:			Summer Deadweight			
2006-10-18			11317,629 mt			
L.O.A	L.B.P	BREADTH	DEPTH	SUMMER DRAFT		
129,75	123,20	19,60	10,40	8,00		
FULL LOADED CONDITION AT SUMMER DRAFT			BALLAST CONDITION			
FREEBOARD		AIR DRAFT		FREEBOARD		AIR DRAFT
2,41 METERS		26,35 METERS		5,27 METERS		27,88 METERS
GROSS TONNAGE		NET TONNAGE		SUEZ CANAL GRT		SUEZ CANAL NRT
7636 / 6270 (SBT)		3644		NA		NA
Dist. Man. To . Bow		68.10 m		Lightship parallel body		38,64 m
Dist. Man. To . Accom.		36,58 m		Ballast cond. Parallel body		53,35 m
Dist. Bow. To .Accom.		104,68 m		Summer DWT parallel body		62,69 m
Dist. Acc. To .Stern.		25,08 m		Dist manifold to ship side		4,28 m
FWA & TPC AT SDWT			174 MM / 21,78 m			
TOTAL 100% AND 98% CAPACITY OF CARGO TANKS			12654 / 12401			
NUMBER OF MANIFOLDS AND SIZE			13 X 6" + 2 X 10" (PORT & STARBOARD)			
NUMBER OF CARGO REDUCERS AND SIZE			DIN: 2X (300 to 500)+3x (300 to 200)+3x (250-200)+ 2x(250-150)+1x(200 to 150)			
ANCHOR CHAIN			Dia:56 mm/Q2a,STBD: 9 Schackles, PORT:10 Schackles			
ANCHOR CHAIN MAX RATE OF HEAVING			LESS THAN 3 MINUTES / 1 SCHACKLE (PORT & STBD)			
ANCHOR WEIGHT			MSPEK ANCHOR: STBD: 4320 KG, PORT: 4145 KG			
TYPE OF ENGINE			MAK 9M32C, CATERPILLAR MOTOREN GMBH			
ENGINE POWER			4320 KW, 5793 BHP, 4 STROKE & 600 rpm (IFO 380)			
NUMBER OF D/G AND POWER			3 D/G;620 KW / 1800 rpm & SHAFT GEN.:1250 KW-1800 RPM			
DIA. OF PROPELLER / PITCH & BOW THRUSTER			1xLB 10 YEARS, 4750mm / CPP & B/T: 450kw (603 HP)			
AUX BOILERS			2 x AALBORG-THERMAL FLUID HEATER-OIL FIRED, SURFACE 65m2, 13 BAR			
STEAM BOILER & EXHAUSTGAS ECONOMISER			1 X AALBORG-UNFIRED STEAM BOILER, 10,5 BAR/2 TON/hr & 1X AALBORG EXHAUSTGAS ECONOMISER, 30,3 m2 10BAR			
CARGO & BALLAST PUMPS PARTICULARS						
CARGO & WBT TK	COTS: 1-6+DECK COT/SLOP TK (14 TANKS-FULL HEMPEL PHENOLIC EPOXY/HEMPADUR 1550 COATED) MAX CARGO CARRIAGE TEMP 80C, MAX S.G. OF CGO 1,54 TON/CBM & WBT: 1-7 P/S+TRIM TANK+APT (17 TANKS-FULL HEMPEL EPOXY COATED					
CARGO PUMPS	12 Pcs 300 m3/h at 10 MTH. HAMWORTHY SVANEHOJ DL132d/150 SINGLE STAGE DEEPWHEEL					
SLOP PUMPS	2 PCS * 65 m3/h at 80 MTH. EPTEC OSLO					
BALLAST PUMPS	2 PCS * 350 m3/h AT 35 MTH ELECTRICAL DRIVEN CENTRIFUGAL PUMP					
CARGO & BALLAST EDUCTOR PARTICULARS						
OIL SPILL PUMP	2 PCS 36 m3/h AT 100 MTH. HAKPI POMPALARI d/d 1400					
W.B. STRIPPING EDUCTOR	1 PCS DNG 200 & 100, 50 m3 /h AT 80 MLC.					
TANK CLEANING HEATER						
TANK WASH HEAT EXCHANGER	1 PCC THERMAL OIL, 35,1 m2 & 2 PCS THERMAL OIL FLUID HEATER-OIL FIRED, FM 44 TO 66 C: 96 hrs (WHILE SEA TEMP 0 & AIR 10 C.					
INERT GAS GENERATOR PLANTS PARTICULARS						
INERT GAS GENERATOR	ENRAFSMITH, SCRUBBER & DECK SEAL: SMITH GAS, 2 PCS BLOWERS 2250 m3/h EACH.					
CRANE'S						
1 x GD-KHK 20/9 GURDESAN HOSES CRANE (SWL 5 mt)		1 x GD.KHK.20/9 RESCUE BOAT, LIFE RAFT & PROVISION CRANE (SWL 2,1 mt)				