

**REDERI AB VERITAS TANKERS SHIP PARTICULARS**

<b>Ship's Name</b>	<b>M/T ASTRAL</b>				
<b>Owner / Manager</b>	REDERI AB VERITAS TANKERS,				
<b>Full Address</b>	Tjärebergsvägen 10, SE-430 82 Donsö, Sweden			<b>SHIP COMMUNICATION DETAIL</b>	
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<b>D.P.A</b>	Joakim Franzén +46 706 710 155			<b>e-mail</b>	astral@veritastankers.se
<b>Official No:</b>	<b>IMO Number</b>	<b>MMSI No:</b>	<b>Call Sign</b>	<b>Nationality</b>	<b>Port of Registry</b>
9371878	9371878	266 266 000	SLHJ	SWEDEN	DONSÖ
<b>Ship Type</b>	<b>IMO TYPE II CHEMICAL TANKER &amp; OIL TANKER</b>				
<b>Ship Builder</b>	Torlak shipyard - Tuzla/Istanbul, Hull No:47				
<b>Class Society</b>	BUREAU VERITAS				
<b>Class Notation</b>	I+HULL+MACH OIL; TANKER ESP; CHEMICAL TANKER ESP; UNRESTRICTED NAVIGATION+AUT-UMS,CLEAN SEA, CLEAN AIR, ICE CLASS 1A, MOON-SHAFT VCS; IG				
<b>Delivery Date:</b>			<b>Summer Deadweight</b>		
2006-10-18			11317,629 mt		
<b>L.O.A</b>	<b>L.B.P</b>	<b>BREADTH</b>	<b>DEPTH</b>	<b>SUMMER DRAFT</b>	
129,75	123,20	19,60	10,40	8,00	
<b>FULL LOADED CONDITION AT SUMMER DRAFT</b>			<b>BALLAST CONDITION</b>		
<b>FREEBOARD</b>		<b>AIR DRAFT</b>		<b>AIR DRAFT</b>	
2,41 METERS		26,35 METERS		27,88 METERS	
<b>GROSS TONNAGE</b>		<b>NET TONNAGE</b>		<b>SUEZ CANAL GRT</b>	
7636 / 6270 (SBT)		3644		NA	
<b>Dist. Man. To .Bow</b>	68.10 m		<b>Lightship parallel body</b>	38,64 m	
<b>Dist. Man. To .Accom.</b>	36,58 m		<b>Ballast cond. Parallel body</b>	53,35 m	
<b>Dist. Bow. To .Accom.</b>	104,68 m		<b>Summer DWT parallel body</b>	62,69 m	
<b>Dist. Acc. To .Stern.</b>	25,08 m		<b>Dist manifold to ship side</b>	4,28 m	
<b>FWA &amp; TPC AT SDWT</b>			174 MM / 21,78 m		
<b>TOTAL 100% AND 98% CAPACITY OF CARGO TANKS</b>			12654 / 12401		
<b>NUMBER OF MANIFOLDS AND SIZE</b>			13 X 6" + 2 X 10" (PORT & STARBOARD)		
<b>NUMBER OF CARGO REDUCERS AND SIZE</b>			DIN: 2X (300 to 500)+3x (300 to 200)+3x (250-200)+ 2x(250-150)+1x(200 to 150)		
<b>ANCHOR CHAIN</b>			Dia:56 mm/Q2a,STBD: 10 Schackles, PORT:9 Schackles		
<b>ANCHOR CHAIN MAX RATE OF HEAVING</b>			LESS THAN 3 MINUTES / 1 SCHACLE (PORT & STBD)		
<b>ANCHOR WEIGHT</b>			MSPEK ANCHOR: STBD: 4320 KG, PORT: 4145 KG		
<b>TYPE OF ENGINE</b>			<b>MAK 9M32C, CATERPILLAR MOTOREN GMBH</b>		
<b>ENGINE POWER</b>			4320 KW, 5793 BHP, 4 STROKE & 600 rpm (IFO 380)		
<b>NUMBER OF D/G AND POWER</b>			3 D/G;620 KW / 1800 rpm & SHAFT GEN.:1250 KW-1800 RPM		
<b>DIA. OF PROPELLER / PITCH &amp; BOW THRUSTER</b>			1xLB 10 YEARS, 4750mm / CPP & B/T: 450kw ( 603 HP)		
<b>AUX BOILERS</b>			2 x AALBORG-THERMAL FLUID HEATER-OIL FIRED, SURFACE 65m2, 13 BAR		
<b>STEAM BOILER &amp; EXHAUSTGAS ECONOMISER</b>			1 x AALBORG-UNFIRED STEAM BOILER, 10,5 BAR/2 TON/11 & 1 x AALBORG EXHAUST GAS ECONOMISER, 30,3 m2 10BAR		
<b>CARGO &amp; BALLAST PUMPS PARTICULARS</b>					
<b>CARGO &amp; WBT TK</b>	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)				
<b>CARGO PUMPS</b>	12 Pcs 300 m3/h at 10 MTH. HAMWORTY SVANEHOJ DL132d/150 SINGLE STAGE DEEPWHEEL				
<b>SLOP PUMPS</b>	2 PCS * 65 m3/h at 80 MTH. EPTEC OSLO				
<b>BALLAST PUMPS</b>	2 PCS * 350 m3/h AT 35 MTH ELECTRICAL DRIVEN CENTRIFUGAL PUMP				
<b>CARGO &amp; BALLAST EDUCTOR PARTICULARS</b>					
<b>OIL SPILL PUMP</b>	2 PCS 36 m3/h AT 100 MTH. HAKPI POMPALARI d/d 1400				
<b>W.B. STRIPPING EDUCTOR</b>	1 PCS DNG 200 & 100, 50 m3 /h AT 80 MLC.				
<b>TANK CLEANING HEATER</b>					
<b>TANK WASH HEAT EXCHANGER</b>	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.				
<b>INERT GAS GENERATOR PLANTS PARTICULARS</b>					
<b>INERT GAS GENERATOR</b>	ENRAF SMITH, SCRUBBER & DECK SEAL: SMITH GAS, 2 PCS BLOWERS 2250 m3/h EACH.				
<b>CRANE'S</b>					
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)		