



MARNAVI S.p.A.

M/T ACQUAMARINA

IMO N°9268631

Liquid chemical tanker - 12003 T dwt



MAIN FEATURE

Sede legale ed amministrativa: Via Santa Brigida, 39 – 80133 Napoli
Tel.: +39 081 2513111 Sel. Pass. - Telefax: +39 081 5510865
C. F./P. IVA/Iscrizione Registro Imprese di Napoli n.01619820630
Cap. Soc. € 30.000.000 int. vers. – R.E.A. Napoli n. 313773
Web site: www.marnavi.it – E-mail: marnavi@marnavi.it

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Ufficio di Londra : Pennine Place – 2A Charing Cross Road
London WC2H0HF - Phone: +44 7586725366





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SHIPYARD	CANTIERI NAVALI MORINI-ITALY – NB280
DELIVERY	MAY, 2004
IMO NUMBER	9268631
PORT OF REGISTRY	ANCONA
NUMBER OF REGISTRY	INT.REG.-5
INTERNATIONAL CALL SIGN	IBJJ
CLASSIFICATION SOCIETY	RINA
CLASS	C ⚡ oil tanker ESP- double hull- chemical tanker ESP, NAV: unrestricted ⚡AUT-PORT; ⚡ AUT-UMS; ⚡AVM-APS; CARGOCONTROL; CLEANSEA; ICE CLASS IA SUPER; MON SHAFT; ⚡SYS-NEQ-1; VCS
PRODUCTS TO BE CARRIED OUT	Oil – chem (IMO II-III)
DEADWEIGHT	12003 MT
CORRESPONDING DFRAFT	8037 m
GROSS TONNAGE	8428 GT
DISPLACEMENT	16815 T
LIGHT SHIP	4812 T
MEDIUM SPEED	12.5kN
INTERNATIONAL CONVENTION AND RULES	Ship built in compliance with conventions and rules presently in force

DIMENSION AND CAPACITIES

HULL STRUCTURE	Double hull
HULL PROTECTION	Imprinted current
LENGTH OVER ALL	136,50 m
EXTREME BREADTH	20,4 m
MUDULED DEPTH	10,3 m
NUMBER OF CARGO TANKS	20
CAPACITY 100% OF CARGO AND SLOP TANKS	13804.2 CM
NUMBER OF SLOP TANKS	2
NUMBER OF SEGREGATED BALLAST TANKS	15+FP+AP
CAPACITY 100% OF SEGREGATED BALLAST TANK	4647.4 CM

CARGO AND BALLAST SYSTEM

CARGO TANKS, SLOP TANKS AND SLUDGE TANKS	Avesta Duplex 2205
EQUIPMENT OF CARGO SYSTEM	SS AISI 316, Pipe and valves of the cargo and slop system, butterworth pipes and fixed cargo thanks washing machines, tank ladders, tank gauges, ventilation lines
SEGREGATED BALLAST TANKS COATING	epoxy
CARGO PUMPS BUILDER	FRAMO
LOCATION OF CARGO PUMPS	One in each tank
KIND OF CARGO PUMPS	Centrifugal deepweel hydr. Driven, variable speed
NUMBER OF CARGO PUMPS	18
CARGO PUMPS CAPACITY	14x250cm/h + 4x100cm/h +

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HEAD OF CARGO PUMPS	120 mcl
NUMBER OF SLOP PUMPS	2
KIND OF SLOP PUMPS	Centrifugal deepweel hydr. Driven, variable speed
CAPACITY OF SLOP PUMPS	2 x FRAMO 50 cm/h
NUMBER OF INCOMPATIBLE CARGOES	20
MAXIMUM CAPACITY OF DISCHARGE	1250 cbm/h
MATERIAL OF CARGO PIPES	Avesta 2205
NUMBER OF CARGO LINES, AMIDSHIP	20
NUMBER/DIAMETER CARGO MANIFOLDS, AMIDSHIP	Cargo tanks: 18x6"(DN150) , Common line 1x12"(DN300); Deck tanks: 2x4"(DN100)
NUMBER/DIAMETER STERN CARGO MANIFOLDS	nil
MATERIAL OF CARGO VALVES	Stainless steel
NUMBER/DIAMETER SLOP MANIFOLD AMIDSHIP	2x4"(DN 100)
VAPOUR RETURN	2x5"
NUMBER OF SEGREGATED BALLAST PUMPS	2
KIND OF SEGREGATED BALLAST PUMPS	centrifugal
CAPACITY OF SEGREGATED BALLAST PUMPS	2X300 cm/h
REMOTE CONTROL OF CARGO/BALLAST VALVES	Electro-hydraulic
CARGO CONTROL ROOM WITH "LOAD MASTER" CARGO/BALLAST HANDLING	cargo control room: for control and check of all functions combined with handling of cargo, slop and segregated ballast, washing/heating of tanks, trim and ship's safety; cargo/ballast handling from CCR: through computer; system for level/temp./press. Remote reading: "SAAB TANK RADAR", system for cargo level reading: microwaves; system for cargo temperature reading: 3 sensors in each tank

MACHINERY

TRADE MARK OF THE MAIN ENGINES(ELECTRICAL PROPULSION)	ABB – ACS 6000
POWER OF M/E (KW)	2 x 3300 kW
CORRESPONDING REVOLUTION	Max propeller revolution 118 RPM
TYPE OF FUEL USED	VLSFO 380 CST - MGO
GENERATORS (ELECTRICAL PROPULSION)	3 x W 6L32: Power 3 x 2620 kW (720rpm)
TYPE OF BOILERS	THERMAL OIL
MAIN BOILERS	2 x 3500kW
EXHAUST GAS BOILER	nil

EQUIPMENT AND SYSTEMS

CARGO HEATING SYSTEM	Thermal oil
HEATING COILS MATERIAL IN CARGO TANKS	Stainless steel

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NUMBER OF FIXED CARGO TANKS WASHING MACHINES	36
INERT GAS SYSTEM	NIL
GENERATOR FOR THE PRODUCTION OF NITROGEN	NITROGEN 350 N MC/H @ 99,9%; 1900 N CM/H @ 95%
CONTROLLABLE PITCH PROPELLER	NIL –FIX PROPELLER
BOW THRUSTER	BRUNVOLL P: 520kW

DECK MACHINERY

NUMBER OF CRANES FOR CARGO HOSES	PELLEGRINI GN 3/14 : 3 x 3 tons
TYPE OF DECK MACHINERIES NUMBER OF ANCHOR DRUMS WINDLASS	2 x Comb. Anch- Mooring Winch : 2 x 2 drums
NUMBER OF MOORING DRUMS	2 winches x 2 drums
LIFE BOAT	FREE-FALL NORSAFE GES 25

OTHER TANKS CAPACITY

MAX IFO CAPACITY	376.6 CM
MAX MGO CAPACITY	427.2 CM
MAX. CAPACITY SLUDGE TANK	17.8 CM
MAX. CAPACITY BILGE TANK	35.3 CM
MAX FW TANK CAPACITY	102 CM
MAX INDUSTRIAL WATER CAPACITY	273 CM
MAX CAPACITY DIRTY OIL TANK	12.10 CM

NAVIGATION INSTRUMENTS

RADIO AND NAVIGATION EQUIPMENT	route-planning computer, autopilot, radar plant (2XARPA s/x), direction finder, GPS satellite, gyro-compass, echosounder, log, magnetic compass, weather fax, RTF station GMDSS, AIS
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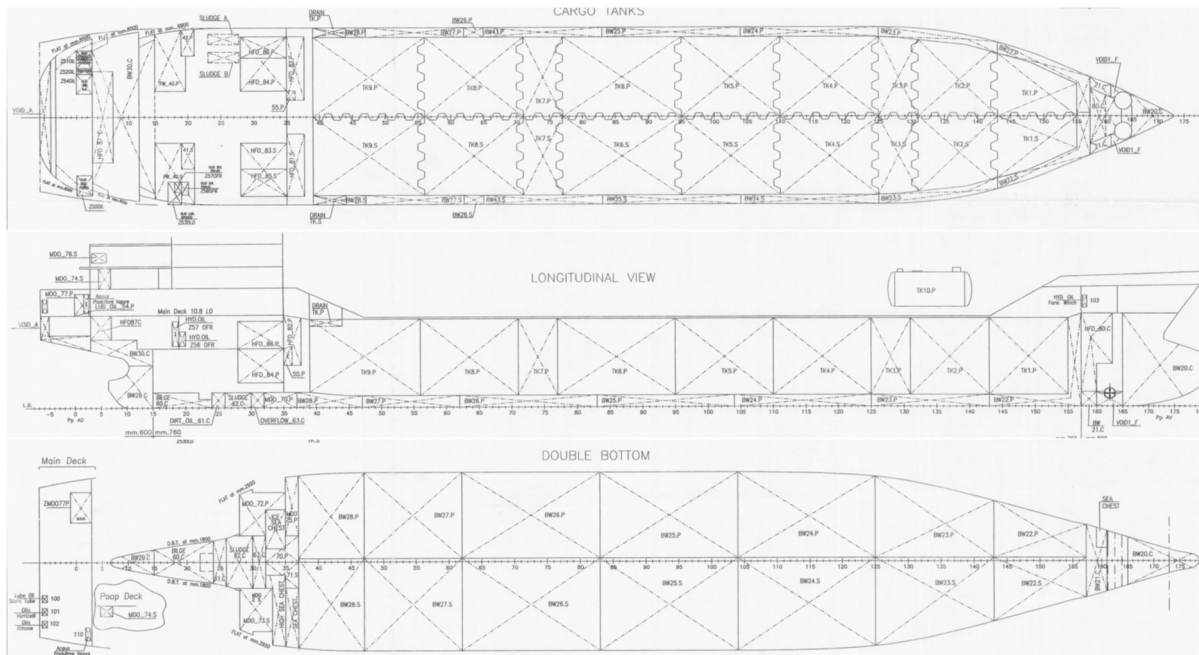
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N.	FROM	TO	CAPACITY 100% m³	CAPACITY 90% m³	CENTER OF GRAVITY		
					LCG	TCG	YCG
CARGO TANKS ACCORDING S G S							
TK10.P	127.7	140.4	114.3	112.0	99.43	-5.52	13.93
TK10.S	127.7	140.4	114.2	112.0	99.43	5.52	13.93
TK9.P	39	56	1007.4	987.2	33.60	-4.41	6.20
TK9.S	39	56	1007.8	987.6	33.60	4.41	6.20
TK8.P	55	71	932.6	913.9	45.62	-4.45	6.10
TK8.S	55	71	933.7	915.0	45.51	4.45	6.10
TK7.P	70	77	373.1	365.6	53.55	-4.46	6.10
TK7.S	70	77	373.2	366.7	53.46	4.46	6.10
TK6.P	76	95	1119.8	1097.4	62.67	-4.46	6.10
TK6.S	76	95	1120.1	1097.6	62.61	4.46	6.10
TK5.P	94	110	935.5	917.0	75.21	-4.46	6.10
TK5.S	94	110	934.9	916.7	75.15	4.46	6.10
TK4.P	109	125	931.8	913.1	86.53	-4.43	6.11
TK4.S	109	125	930.9	912.2	86.53	4.43	6.11
TK3.P	124	131	361.9	354.6	94.51	-4.31	6.17
TK3.S	124	131	361.9	354.6	94.51	4.31	6.17
TK2.P	130	143	653.1	640.0	101.18	-3.91	6.26
TK2.S	130	143	653.9	640.8	101.18	3.91	6.26
TK1.P	142	155	472.5	463.0	110.22	-2.78	6.32
TK1.S	142	155	473.6	464.1	110.22	2.78	6.32
SUBTOTAL			13804.2	13528.1	69.66	0.00	6.19

BALLAST WATER						
BW20.C Forepeak	65	182.14		271.4	124.85	0.00
BW21.C	57	161		72.90	118.02	0.00
BW22.S	43	157		254.10	112.46	3.83
BW22.P	43	157		244.00	112.43	-4.08
BW23.S	25	143		315.30	99.28	6.16
BW23.P	25	143		300.50	99.26	-6.47
BW24.S	04	125		403.60	84.59	6.72
BW24.P	04	125		386.20	84.59	-7.03
BW25.S	83	104		409.30	68.67	6.75
BW25.P	83	104		391.30	68.67	-7.06
BW26.S	62	83		271.50	52.13	5.30
BW26.P	62	83		253.60	52.09	-5.67
BW27.S	47	62		280.20	39.14	6.68
BW27.P	47	62		267.70	39.15	-7.00
BW28.S	37	47		161.10	29.55	6.36
BW28.P	35	47		152.90	29.52	-6.57
BW29.C	6.42	15		30.30	7.30	0.00
BW30.C	3.0	15		180.90	5.70	0.00
SUBTOTAL				4647.4		
				18930.62	-0.75	18929.87

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