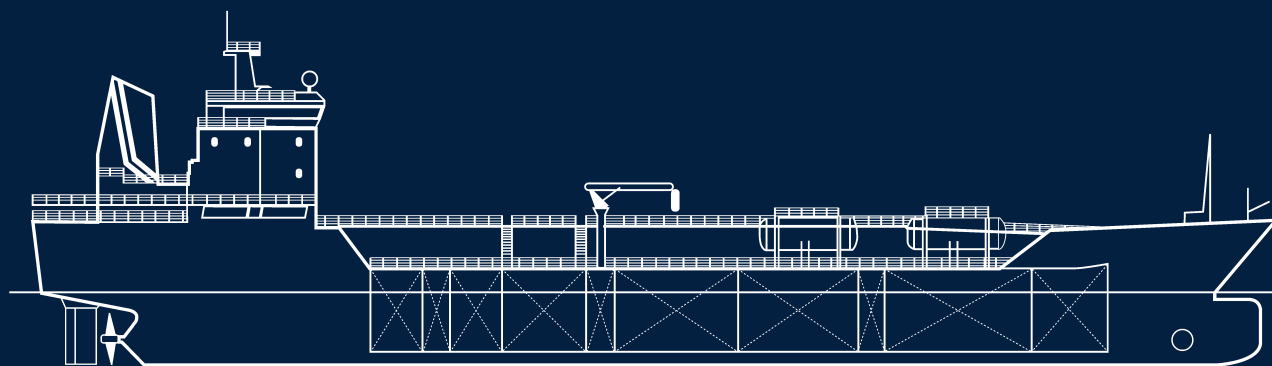




M/T NORMANNA

DWT 10.020 - OIL AND CHEMICAL CARRIER
IMO I (DECK TANKS) - IMO II - STAINLESS STEEL TANKS
DOUBLE HULL S.B.T. - RINA CLASS



MEDITERRANEA DI NAVIGAZIONE S.P.A.



IMO	9125279
Call Sign	I.B.R.N.
Type of Vessel	IMO I –IMO II
Year Built/Shipyard	1996 – De Poli - Venice (ITALY)
L.O.A.	m. 126,0
L.B.P.	m. 115,0
Breadth	m. 19,0
Moulded depth	m. 9,9
Summer Draft	m. 7,89
Summer D.W.T.	tonn 10.022
Gross Tonnage	tonn 6.877
Net Tonnage	tonn 3.293
Type of tank material	Stainless steel – AVESTA Duplex 2205
Class Register	Rina
100% Cargo tanks (slops included)	m3 11.198,054
98% Cargo tanks (slops included)	m3 10.974,09
100% Slop tanks capacity	m3 400 (100 x 4 tank)
100% Segregate Ballast	m3 3.849,52
Max cargo specific gravity	2,2 t/ m3 (1,9 x 2W) 1,2 x DTW
Vapour return line manifold	4 x 4" midship – 1 x 4" stern
100% Bunker capacity	F.O. m3 662.22 G.O. m3 135.9
100% Fresh water capacity	m3 440,62
Tank segregations	24 (each tank)
Service speed	14 Kts
Main Engine	1 x MAK 8M552 C x 5400 Kw
Propeller system	1 x variable pitch
Electric propeller driving (APS)	1 x 1050 Kw (speed 11 Knt)
Diesel generator	3 x 950 Kw + 1 SG x 1000 Kw MAK
Boilers	2 x diathermic oil 2.000.000 Kcal/h
Economizer	1x 650.000 Kcal/h
Bow Thruster/Stern Thruster	Bow 700 Hp - Hydraulic FRAMO
Max discharging rate	1.200 m3/h
Tank level / temperature system	Saab Rosemont Radar System
Cargo heating	Stainless steel coils – Steam
Cargo tank cleaning system	BUTTERWORTH fixed type with 1 line fresh water and 1 line sea water
Fixed Gas Detection System	MOSS type LFG7-22
I.G.S.	2.100 Nm3 h Inert gas SMIT/nitrogen generator
Nitrogen generator	750 m3/h
Cargo lines and valves materials	Stainless steel
Stern lines	1 x 8" + 1 x VRL
Cargo pumps	FRAMO submerged Hydraulic Single stage Centrifugal 14 x 200 m3 (1-2-3-4-7-8-9-10-13-14-15-16-19-20) - 6 x 100 m3 (5-6-11-12-17-18) m3 /h - 4 x 50 m3 /h (21-22-23-24)
Cranes	1 x 5 tonn(cargo hose) @ midship - 2 x 2.2 tonn service @ aft port and Stbd – 1 x 2 tonn cargo portal @ stern
Class notation	*100-A-1.1 – Cst (oil) ESP double hull ; Cst (chem) ESP @ APS ; EP1; @ IAI; @ IAP; @ IAQ-1; @ IIQ; NAU; P; SCC; SFI; I STAR-MACH-PMS ; VCS

MTC (t x m)	TPC (t)	DISPLACEMENT (t)	DRAFT (m)	DWT	
				SEA WATER SW (t)	FRESH WATER FW (t)
190.0		16.000		12.000	11.500
		15.500		11.500	11.000
	21.0	15.000	8.5	11.000	10.500
180.0		14.500		10.500	10.000
			8.0	10.000	
170.0	20.5	14.000			9.500
		13.500	7.5	9.500	9.000
		13.000		9.000	8.500
160.0	20.0	12.500		8.500	8.000
		12.000	7.0	8.000	7.500
150.0	19.5	11.500		7.500	7.000
		11.000	6.5	7.000	6.500
140.0	19.0	10.500		6.500	6.000
		10.000	6.0	6.000	5.500
130.0		9.500		5.500	5.000
	18.5	9.000	5.5	5.000	4.500
		8.500	5.0	4.500	4.000
120.0		8.000		4.000	3.500
		7.500	4.5	3.500	3.000
	18.0	7.000		3.000	2.500
		6.500	4.0	2.500	2.000
		6.000		2.000	1.500
		5.500	3.5	1.500	1.000
110.0	17.5	5.000		1.000	500
		4.500	3.0	500	0
		4.000		0	0
	17.0	3.500			

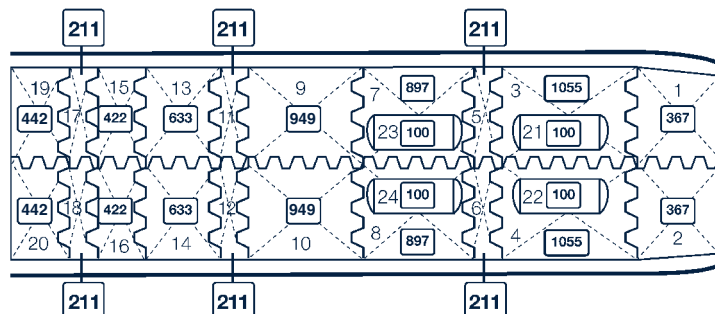
D=7,9015 M FM K.L.

SUMMER FULL LOAD

DWT 10020

D=2,6000 m FM K.L.

All technical details are deemed to be correct but not guaranteed



SEGREGATIONS: 98% Vol

1	359,856	13	620,355
2	359,856	14	620,355
3	1034,411	15	413,570
4	1034,411	16	413,570
5	206,785	17	206,292
6	206,785	18	206,292
7	878,837	19	433,624
8	878,837	20	433,624
9	930,534	21	98,000
10	930,534	22	98,000
11	206,785	23	98,000
12	206,785	24	98,000

TOTALE= 10.974,1