M.S. "JÓZEF CONRAD"

YARD No. 480

BUILT: BRODOGRADILIŠTE 3. MAJ RIJEKA - YUGOSLAVIA

– 1961 –

SIGNAL LETTERS: 5PQT

MAIN PARTICULARS

LENGTH OVER ALL	145.200 m.	480 ft. 7 ins.
LENGTH B.P. (OPEN SHELTERDECKER)	135.000 m.	442 ft. 11 ins.
LENGTH B.P. (CLOSED SHELTERDECKER)	135.428 m.	444 ft. 4 ins.
BREADTH MOULDED	19.000 m.	62 ft. 4 ins.
DEPTH MOULDED TO MAIN DECK	8.504 m.	27 ft. 10 ins.
DEPTH MOULDED TO SHELTER DECK	11.286 m.	36 ft. 11 ins.
DRAUGHT ON SUMMER FREEBOARD		
FOR OPEN SHELTER DECK CONDITION	7.627 m.	25 ft. 0 ¼ ins.
FOR CLOSED SHELTER DECK CONDITION	9.080 m.	29 ft. 9¼ ins.
SPEED LOADED		
AT 118 r.p.m., 7000 b.h.p. ON OPEN SHELTERDECKER		16.25 KNOTS
CLOSED SHELTERDECKER		15.85 KNOTS
AT 118 r.p.m., 7800 b.h.p. OPEN SHELTERDECKER		16.60 KNOTS
CLOSED SHELTERDECKER		16.30 KNOTS
DAILY FUEL CONSUMPTION AT 7000 B.H.P.		30.00 TONS
DAILY FUEL CONSUMPTION AT 7.800 B.H.P.		33.00 TONS

CLASS: LLOYD'S REGISTER OF SHIPPING + 100 A.1., SUITABLE FOR +ENVY CARGOES

MACHINERY AND DECK EQUIPMENT

MAIN ENGINE: 8 TMD-BLUZER MARINE DIESEL ENGINE, TYPE 8 RD 76, TWO STROKE, SINGLE ACTING, DIRECT REVERSING, SUPERCHARGED WITH 8 CYLINDERS, DEVELOPING 7800 B.H.P. AT 118 R.P.M. CYLINDER BORE 760 MM., STROKE 1650 MM. TWO BALZER EXHAUST-GAS TURBO-CHARGERS TYPE BT-67.

AUXILIARY MACHINERY: TWO 400 K.V.A. 400 V.A.C. 3-PHASE 50 CYCLE MARINE TYPE DIESEL GENERATING SETS WITH 1 SYNCHRONA-BALZER 1 BAH 22 TYPE, 8 CYLINDER VERTICAL, SINGLE ACTING, FOUR-STROKE OIL ENGINES AND 1 SINGLE CONCEAT ALTERNATORS, NORMAL SERVICE RATING OF THE ENGINE 500 B.H.P. AT 500 R.P.M.

ONE 250 K.V.A. 3-PHASE 50 CS MARINE TYPE DIESEL GENERATING SET WITH 1 SYNCHRONA-BALZER 1 BAH 22 TYPE 8 CYLINDER VERTICAL, SINGLE ACTING, FOUR-STROKE OIL ENGINE AND 1 SINGLE CONCEAT ALTERNATOR, NORMAL SERVICE RATING OF THE ENGINE 300 B.H.P. AT 500 R.P.M.

TWO ELECTRICALLY DRIVEN COMPRESSORS EACH HAVING A CAPACITY OF ABT. 240 CU.M. FREE AIR PER HOUR AT A PRESSURE OF 30 KG PER SQ.CM. ONE EMERGENCY COMPRESSOR HAVING A CAPACITY OF ABT. 20 CU.M. FREE AIR PER HOUR, PRESSURE 30 KG PER SQ.CM.

TWO LUBRICATING OIL PUMPS FOR MAIN ENGINE, EACH HAVING A CAPACITY OF ABT. 270 CU.M. PER HOUR.

TWO SEA WATER CIRCULATING PUMPS, EACH HAVING A CAPACITY OF ABT. 215 CU.M. PER HOUR.

TWO FRESH WATER CIRCULATING PUMPS FOR MAIN ENGINE, EACH HAVING A CAPACITY OF ABT. 235 CU.M. PER HOUR.

TWO SEA WATER COOLING PUMPS FOR AUXILIARY ENGINES, EACH HAVING A CAPACITY OF ABT. 54 CU.M. PER HOUR.

TWO FRESH WATER COOLING PUMPS, EACH HAVING A CAPACITY OF 12 CU.M. PER HOUR.

ONE BILGE PUMP HAVING A CAPACITY OF 150 CU.M. PER HOUR.

ONE BALLAST PUMP HAVING A CAPACITY OF ABT. 250 CU.M. PER HOUR.

ONE FIRE AND GENERAL SERVICE PUMP HAVING A CAPACITY OF ABT. 85 CU.M. PER HOUR.

ONE DIESEL ENGINE DRIVEN FIRE PUMP HAVING A CAPACITY OF ABT. 120 CU.M. PER HOUR.

ONE HEAVY FUEL OIL TRANSFER PUMP, THREE FUEL OIL DAILY SERVICE PUMPS, ONE LUBRICATING OIL TRANSFER PUMP, TWO FUEL OIL BOOSTER PUMPS, ONE CYLINDER OIL TRANSFER PUMP, TWO BILGE OIL PUMPS, TWO BOILER FEED WATER PUMPS, WATER DISTILLING PLANT, THREE SEPARATORS FOR MAIN ENGINE, TWO LUBRICATING OIL COOLERS, TWO FRESH WATER COOLERS, FOUR FUEL OIL AND TWO LUBRICATING OIL DEPARTMENT FILTERS, EQUIPMENT FOR HEATING THE TANKTOP AND SOLE PLATES, TWO BOILERS, ETC.

REFRIGERATING PLANT WITH TWO ELECTRICALLY DRIVEN FULL AUTOMATIC WATER COOLED FREON MACHINES FOR PROVISION CHAMBERS.

EQUIPMENT: ELECTRIC WINDLASS, SPEED 9 CHAIN LINKS PER MIN. FOR CARGO WINCHES SEE RELATIVE TABLE ON THIS DRAWING. TWO ELECTRICALLY DRIVEN CAPSTANS, ELECTRO-HYDRAULIC TYPE STEERING GEAR, THREE BRACKET AND TWO BANJO POSTS FOR DERRICK SEE RELATIVE TABLE ON THE DRAWING. MAC GREGOR SINGLE - PULL TYPE HATCH COVERS FOR ALL HATCHES AN VERTICAL DECK REMOVAL VENTILATION IN ALL HOLDS AND TWEEN DECKS (RECIRCULATION SYSTEM). CO2 FIRE EXTINGUISHING SYSTEM IN ALL HOLDS AND TWEEN DECKS. TOTAL FLOODING SYSTEM FOR ENGINE ROOM. TWO FIRE GLASS MOTOR BOATS, EACH FOR 70 PERSONS ONE LIFEBOATING BOAT.

NAVIGATING EQUIPMENT: PATH GYRO COMPASS WITH 3 REPEATERS AND AUTOMATIC STEERING DEVICE, 10 KMS RESPONSE, MK 2 GYRO COMPASS REPEATER AND COMPASS LIQUID TYPE 10 KMS BESTEEL, AFTER STEERING BINNACLE AND COMPASS LIQUID TYPE 10 KMS BESTEEL EQUIPMENT DKMG - RADIO ELECTRONIC ELAC DIRECTION FINDER DANAK RADIO - ELECTRONIC ELAC ECHO SOUNDER KELVIN S. HUGHES TYPE MS 3. RADIO TELEPHONE TYPE SA 12 T.

ACCOMMODATION: CREW IN SINGLE AND DOUBLE BERTH CABINS, 12 PASSENGERS IN 2 SINGLE AND 5 DOUBLE BERTH CABINS WITH PRIVATE TOILETS, AIR CONDITIONING EQUIPMENT, CENTRAL SYSTEM FOR ALL CABINS AND SALOONS ROOMS.

HEIGHT OF MAST TOPS FROM KEEL BOTTOM

	m.	FEET
FORE MAST	30.25	99 ft. 2 ¾ ins.
FORE MAST	28.50	93 ft. 6 ins.
AFTER MAST	28.00	91 ft. 10 ins.
AFTER MAST	28.00	91 ft. 10 ins.
ENGINE MAST	39.18	128 ft. 5 ¼ ins.

BOOMS, DERRICKS AND WINCHES

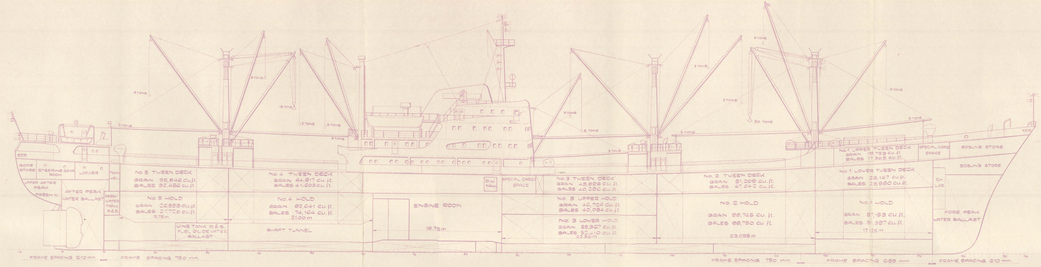
HATCH NO.	BOOMS OR DERRICKS NUMBER	LENGTH METRES	LENGTH FEET AND INCHES	LOAD	NO.	WINCHES LOAD IN TONS
1 AFT	2 DERRICKS	18.00	59 ft. 0 ¾ ins.	5	2	5
1 FORE	2 DERRICKS	18.00	59 ft. 0 ¾ ins.	5	2	5
2 FORE	1 BOOM	18.00	59 ft. 0 ¾ ins.	30	1	—
2 AFT	2 DERRICKS	18.00	59 ft. 0 ¾ ins.	5	2	5
3 FORE	2 DERRICKS	18.00	59 ft. 0 ¾ ins.	5	2	5
3 AFT	1 BOOM	18.00	59 ft. 0 ¾ ins.	30	1	—
4 AFT	2 DERRICKS	17.00	55 ft. 9 ¾ ins.	5	2	5
4 FORE	2 DERRICKS	17.00	55 ft. 9 ¾ ins.	5	2	5
5 AFT	1 BOOM	18.00	59 ft. 0 ¾ ins.	30	1	—
5 FORE	2 DERRICKS	17.00	55 ft. 9 ¾ ins.	5	2	5

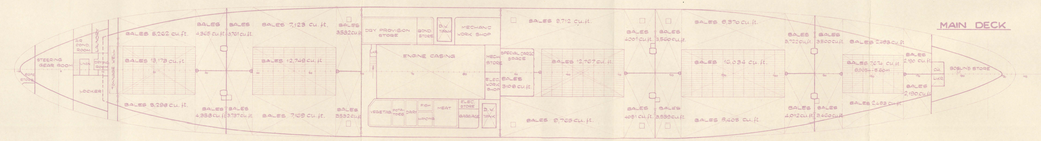
CLEARANCE BETWEEN DECK

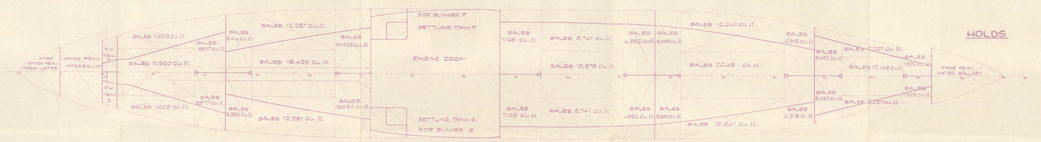
COMPARTMENTS	FORWARD METRES	FORWARD FEET	AFT METRES	AFT FEET
No. 1 UPPER TWEEN DECK	1.83	6 ft. 0.01	2.03	6 ft. 7 ¾ ins.
No. 1 LOWER TWEEN DECK	1.91	6 ft. 3 ¼ ins.	2.03	6 ft. 7 ¾ ins.
No. 2 TWEEN DECK	2.13	6 ft. 11 ¾ ins.	2.47	8 ft. 1 ¼ ins.
No. 3 TWEEN DECK	2.83	9 ft. 3 ¼ ins.	2.83	9 ft. 3 ¼ ins.
No. 3 UPPER HOLD	2.40	7 ft. 10 ½ ins.	2.38	7 ft. 9 ¾ ins.
No. 4 TWEEN DECK	2.83	9 ft. 3 ¼ ins.	2.83	9 ft. 3 ¼ ins.
No. 5 TWEEN DECK	2.83	9 ft. 3 ¼ ins.	2.83	9 ft. 3 ¼ ins.

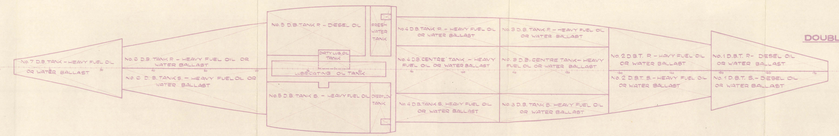
TONNAGE

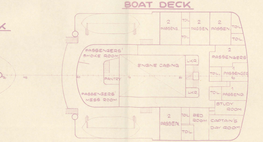
	GROSS	NET	DEDUCTIONS FOR CREW SPACE
REG. BK. (OPEN SHELTERDECKER)	8.751.03	5.078.03	

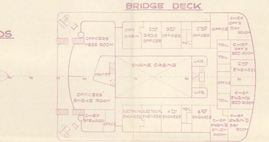


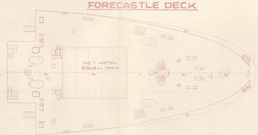




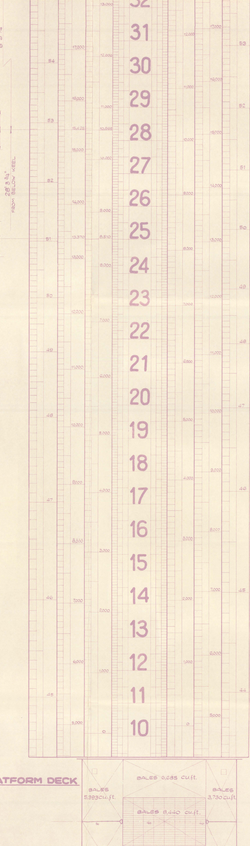








DEADWEIGHT AND FREEBOARD SCALE



CAPACITIES OF HOLDS AND TWEEN DECKS

COMPARTMENT	FRAMES	m³	cu. ft.	m³	cu. ft.	METRIC TONS	LONG TONS	BALE CAPACITY METRIC TONS	BALE CAPACITY LONG TONS
No. 1 HOLD	13–30	1.050	37.083	1.890	66.750	1.323	1.302	1.260	1.240
No. 2 HOLD	148–107	5.796	204.716	5.618	198.380	5.501	5.413	5.241	5.158
No. 3 UPPER HOLD	107–87	1.829	64.574	1.186	41.883	1.286	1.266	1.225	1.206
No. 3 LOWER HOLD	107–87	2.643	93.331	2.643	93.331	3.305	3.253	3.149	3.099
No. 4 HOLD	87–56	5.340	188.611	5.000	176.584	6.125	6.029	5.833	5.741
No. 5 HOLD	56–13	5.963	210.574	5.963	210.574	7.454	7.337	7.098	6.987
TOTAL HOLDS		22.621	799.029	22.300	787.702	25.194	24.800	24.006	23.631
No. 1 UPPER TWEEN DECK	170–152	531	18.758	531	18.758	0.743	0.731	0.708	0.697
No. 1 LOWER TWEEN DECK	178–148	797	28.147	678	23.950	0.948	0.933	0.903	0.889
No. 2 TWEEN DECK	148–107	1.829	64.574	1.829	64.574	2.557	2.517	2.436	2.398
No. 3 TWEEN DECK	117–87	1.243	43.893	1.141	40.295	1.595	1.570	1.520	1.496
No. 4 TWEEN DECK	87–56	1.249	44.105	1.249	44.105	1.747	1.719	1.663	1.637
No. 5 TWEEN DECK	56–18	2.955	104.355	2.955	104.355	4.131	4.066	3.936	3.874
TOTAL TWEEN DECKS		8.605	303.832	8.383	296.037	11.721	11.536	11.166	10.991
TOTAL HOLDS AND TWEEN DECKS		30.826	1.088.861	30.683	1.083.739	36.915	36.336	35.172	34.622
SPECIAL CARGO SPACE	177–170	128	4.666	118	3.980	0.158	0.156	0.150	0.148
SPECIAL CARGO SPACE	18a–18	261	9.406	261	9.406	0.366	0.360	0.348	0.342
GRAND TOTAL		31.215	1.102.933	31.062	1.097.125	37.439	36.852	35.670	35.112

CAPACITIES OF FRESH WATER TANKS

COMPARTMENT	FRAMES	m³	cu. ft.	METRIC TONS	LONG TONS	CENTRE OF GRAVITY ABOVE BASE METRES	CENTRE OF GRAVITY ABOVE BASE FEET
FRESH WATER TANK ABOVE RECESS	13–10	2.360	83.356	2.360	2.322	7.745	7.562
FRESH WATER TANK ABOVE RECESS	10–6	0.670	23.664	0.670	0.659	7.81	7.621
DRINK WATER TANK IN TWEEN DECK	18–13	15.00	529.72	15.00	14.760	9.84	9.605
DRINK WATER TANK IN TWEEN DECK	13–10	7.500	264.860	7.500	7.380	9.84	9.605
F.W. D.B. TANK IN ENGINE ROOM	90–82	20.00	1.045	2.300	2.263	0.62	0.183
LOWER RECESS	6–0	28.00	1.000	28.00	27.552	0.62	0.183
TOTAL		74.100	3.001	74.100	72.936		

CAPACITIES OF WATER BALLAST TANKS

COMPARTMENT	FRAMES	m³	cu. ft.	METRIC TONS	LONG TONS	CENTRE OF GRAVITY ABOVE BASE METRES	CENTRE OF GRAVITY ABOVE BASE FEET
FORE PEAK	178–170	0.000	0.000	0.000	0.000	0.000	0.000
No. 1 DOUBLE BOTTOM P	178–148	55.00	1.942	57.38	56.46	1.13	1.040
No. 1 DOUBLE BOTTOM S	178–148	55.00	1.942	57.38	56.46	1.13	1.040
No. 2 DOUBLE BOTTOM P	148–108	81.80	2.890	84.00	82.67	1.385	1.274
No. 2 DOUBLE BOTTOM S	148–108	81.80	2.890	84.00	82.67	1.385	1.274
No. 3 DOUBLE BOTTOM P	108–87	78.00	2.755	80.00	78.73	1.385	1.274
No. 3 DOUBLE BOTTOM S	108–87	78.00	2.755	80.00	78.73	1.385	1.274
No. 3 DOUBLE BOTTOM AT CENTRE	108–87	79.00	2.790	79.43	78.20	0.005	0.081
No. 4 DOUBLE BOTTOM P	107–87	80.00	2.825	82.00	80.71	0.005	0.081
No. 4 DOUBLE BOTTOM S	107–87	80.00	2.825	82.00	80.71	0.005	0.081
No. 4 DOUBLE BOTTOM AT CENTRE	107–87	128.70	4.545	131.00	128.94	0.004	0.065
No. 5 DOUBLE BOTTOM P	88–56	83.30	2.942	85.00	83.66	1.385	1.274
No. 5 DOUBLE BOTTOM S	88–56	83.30	2.942	85.00	83.66	1.385	1.274
No. 7 DOUBLE BOTTOM	56–13	79.70	2.815	81.00	79.74	0.005	0.081
WING TANK P	84–56	72.80	2.571	74.00	72.84	2.72	2.595
WING TANK S	84–56	72.80	2.571	74.00	72.84	2.72	2.595
AFTER PEAK	18–0	170.70	6.029	174.00	171.28	8.28	8.03
TOTAL		1.277.88	45.120.00	1.310.19	1.289.87		

CAPACITIES OF FUEL OIL TANKS

COMPARTMENT	FRAMES	m³	cu. ft.	METRIC TONS	LONG TONS	CENTRE OF GRAVITY ABOVE BASE METRES	CENTRE OF GRAVITY ABOVE BASE FEET
No. 1 DOUBLE BOTTOM P	178–148	89.00	3.142	89.00	87.61	1.13	1.040
No. 1 DOUBLE BOTTOM S	178–148	89.00	3.142	89.00	87.61	1.13	1.040
No. 2 DOUBLE BOTTOM P	148–108	91.80	3.240	78.00	76.78	1.385	1.274
No. 2 DOUBLE BOTTOM S	148–108	91.80	3.240	78.00	76.78	1.385	1.274
No. 3 DOUBLE BOTTOM P	108–87	73.50	2.595	62.86	61.88	1.385	1.274
No. 3 DOUBLE BOTTOM S	108–87	73.50	2.595	62.86	61.88	1.385	1.274
No. 4 DOUBLE BOTTOM P	107–87	80.80	2.857	69.77	68.67	1.385	1.274
No. 4 DOUBLE BOTTOM S	107–87	80.80	2.857	69.77	68.67	1.385	1.274
No. 4 DOUBLE BOTTOM AT CENTRE	107–87	128.70	4.545	109.60	107.86	0.821	0.751
No. 5 DOUBLE BOTTOM P	87–62	83.00	2.930	71.00	69.86	1.385	1.274
No. 5 DOUBLE BOTTOM S	87–62	83.00	2.930	71.00	69.86	1.385	1.274
No. 6 DOUBLE BOTTOM P	62–34	139.80	4.938	119.80	117.90	1.385	1.274
No. 6 DOUBLE BOTTOM S	62–34	139.80	4.938	119.80	117.90	1.385	1.274
No. 7 DOUBLE BOTTOM	34–13	81.80	2.890	69.00	67.91	0.821	0.751
FOR BUNKER P	28–13	28.60	1.010	24.50	24.11	0.821	0.751
FOR BUNKER S	28–13	28.60	1.010	24.50	24.11	0.821	0.751
SETTLING TANK P	28–18	84.00	2.967	72.00	70.86	0.821	0.751
SETTLING TANK S	28–18	84.00	2.967	72.00	70.86	0.821	0.751
WING TANK P	84–34	73.80	2.606	63.20	62.21	2.72	2.595
WING TANK S	84–34	73.80	2.606	63.20	62.21	2.72	2.595
TOTAL		1.591.09	56.201.00	1.413.89	1.391.69		
OVERFLOW TANK	88–87	28.00	0.989	24.00	23.62	0.82	0.751

CAPACITIES OF LUBRICATING OIL TANKS

COMPARTMENT	FRAMES	m³	cu. ft.	METRIC TONS	LONG TONS	CENTRE OF GRAVITY ABOVE BASE METRES	CENTRE OF GRAVITY ABOVE BASE FEET
LUBRICATING OIL TANK	98–78	18.80	664	17.48	17.20	2.28	2.086
DIRTY LUBR. OIL TANK	78–72	18.80	664	16.48	16.22	14.09	12.86
		37.60	1.328	33.96	33.42		

CAPACITIES OF STORES

COMPARTMENT	FRAMES	VOLUME m³	VOLUME cu. ft.	CENTRE OF GRAVITY ABOVE BASE METRES	CENTRE OF GRAVITY ABOVE BASE FEET
BOSUN'S STORE IN UPPER FORE PEAK	178–170	144.0	5.080	13.28	181.88
BOSUN'S STORE IN FORECASTLE, FORWARD	178–170	144.0	5.080	19.15	18.82
LAMP ROOM	148–145	12.5	441	9.04	10.830
PAINT ROOM	145–142	12.5	441	9.04	10.830
DECK STORE IN MIDDLE PART HOUSE	118–116	27.5	971	13.9	13.70
DECK STORE IN AFT PART HOUSE	58–51	14.0	494	9.87	9.70
CORE STORE	16–AFT	22.5	794	11.60	11.50
LOCKER	11–8	28.0	1.042	11.60	11.50
LINEN LOCKER	11–8	8.6	303	11.95	11.96
CORE ROOM	11–8	8.6	303	11.95	11.96
TOWAGE WELL	13–11	7.20	254.3	1.03	1.87
DRY PROVISION STORE	11–8	58.0	2.048	2.50	47.20
BONDED LOCKER	76–73	17.6	618	1.00	55.20
BONDED LOCKER	73–71	7.5	265	1.00	55.20
REFRIGERATED CHAMBERS	79–61	240	8.370	1.00	51.80

NOTE: GRAIN CAPACITIES ARE MEASURED FROM THE TANK TOP CEILING OR DECK TO THE UNDERSIDE OF THE BEAMS AND FROM THE SHIP'S SIDE TO THE UNDERSIDE OF BRACKETS OR STIFFENERS. THE CAPACITIES OF HATCHWAYS ARE INCLUDED IN THE RELEVANT CAPACITIES OF HOLDS AND TWEEN DECKS.

FREEBOARDS, DRAUGHT AND DEADWEIGHT

CLOSED SHELTERDECKER DRAUGHT	CLOSED SHELTERDECKER FREEBOARD	OPEN SHELTERDECKER DRAUGHT	OPEN SHELTERDECKER FREEBOARD	ITEM	DRAUGHT FEET	DRAUGHT FEET	DEADWEIGHT TONS
10.060	29' 6"	8' 1"	9' 0"	TF TROPICAL FRESH WATER	2' 6 ¼"	29' 0"	8.640
9.695	28' 11 ½"	7' 8"	9' 1 ½"	F SUMMER FRESH WATER	2' 5 ½"	28' 5"	8.030
9.330	28' 4 ¾"	7' 3"	9' 3"	S SUMMER SALT WATER	2' 4 ¾"	27' 10"	7.420
10.060	29' 6"	8' 1"	9' 0"	T SUMMER SALT WATER	2' 6 ¼"	29' 0"	8.640
10.425	30' 1 ¼"	8' 6"	8' 7 ½"	W WINTER SALT WATER	2' 7 ½"	29' 5"	8.850
10.790	30' 7"	8' 10 ½"	8' 4 ¾"	WNA WINTER SALT WATER	2' 8 ¾"	30' 0"	9.150

BRODOGRADILIŠTE 3. MAJ
RIJEKA – YUGOSLAVIA

8,510/10,565 TON MOTOR CARGO SHIP
YARD No. 480

M.S. "JÓZEF CONRAD"

CAPACITY PLAN

SCALE 1:200

RECORDS DEPT. LENDON

DRG. No. 04113

© 2021 Lloyd's Register Foundation