

# MOTOR CARGOSHIP „PARANAGUÁ”

PRINCIPAL DIMENSIONS			
LENGTH OVER ALL	126.933 M	416' 5 1/2"	
LENGTH BETW PERP FOR OPEN SHELTERDECK	117.348 M	385'	
LENGTH BETW PERP FOR CLOSED SHELTERDECK	117.778 M	386' 5"	
BREADTH MOULDED	16.612 M	54' 6"	
DEPTH TO WEATHER DECK	10.617 M	34' 8"	
DEPTH TO MAINDECK	7.239 M	23' 9"	
DRAUGHT MOULDED FOR OPEN SHELTERDECK	6.755 M	22' 2"	
DRAUGHT MOULDED FOR CLOSED SHELTERDECK	7.850 M	25' 9"	

TONNAGE			
GROSS	3891.71	SUE 2	5883.99
NET	1981.21		4121.90

HULL	
OPEN/CLOSED SHELTERDECK TYPE WITH FULL SCANTLING, POOP AND FORECASTLE.	
TOPS OF MASTS 33.161M ABOVE KEEL 5 PAIRS OF POSTS, 1 DERRICK OF 3 TONS 14 DERRICKS OF 5 TONS AND 1 DERRICK OF 25 TONS, 12 ELECTRIC WINCHES OF 5 TONS MAKE VALMET-AG, 1 ELECTRIC CAPSTAN OF 5 TONS, MAKE AG, 1 ELECTRIC ANCHOR WINDLASS MAKE THIRGE.	
MECHANICALLY VENTILATED HOLDS, CO. FIRE EXTINGUISHING PLANT FOR HOLDS AND ENGINE ROOM.	
SHELTERDECK HATCH COVERS OF MAC GREGOR SINGLE PULL TYPE.	
MAINDECK COVERS OF PORT/STARBOARD TYPE YARD MADE.	
HEIGHT ABOVE KEEL TO HATCHCOAMING N°1 FORE END 12.466M.	
HEATING COILS IN VEGETABLE OIL TANKS 250 FT/TON.	
RADAR DECCA-404 DIRECTION FINDER MAKE DANKS RADIO ECHO SOUNDER MAKE KELVIN HUGHES, GYRO COMPASS WITH AUTOPILOT MAKE ANSCHUTZ SAL LOG.	
LONG AND SHORT WAVE TRANSMITTER, INTERCOMMUNICATING SYSTEM, TELEPHONE.	

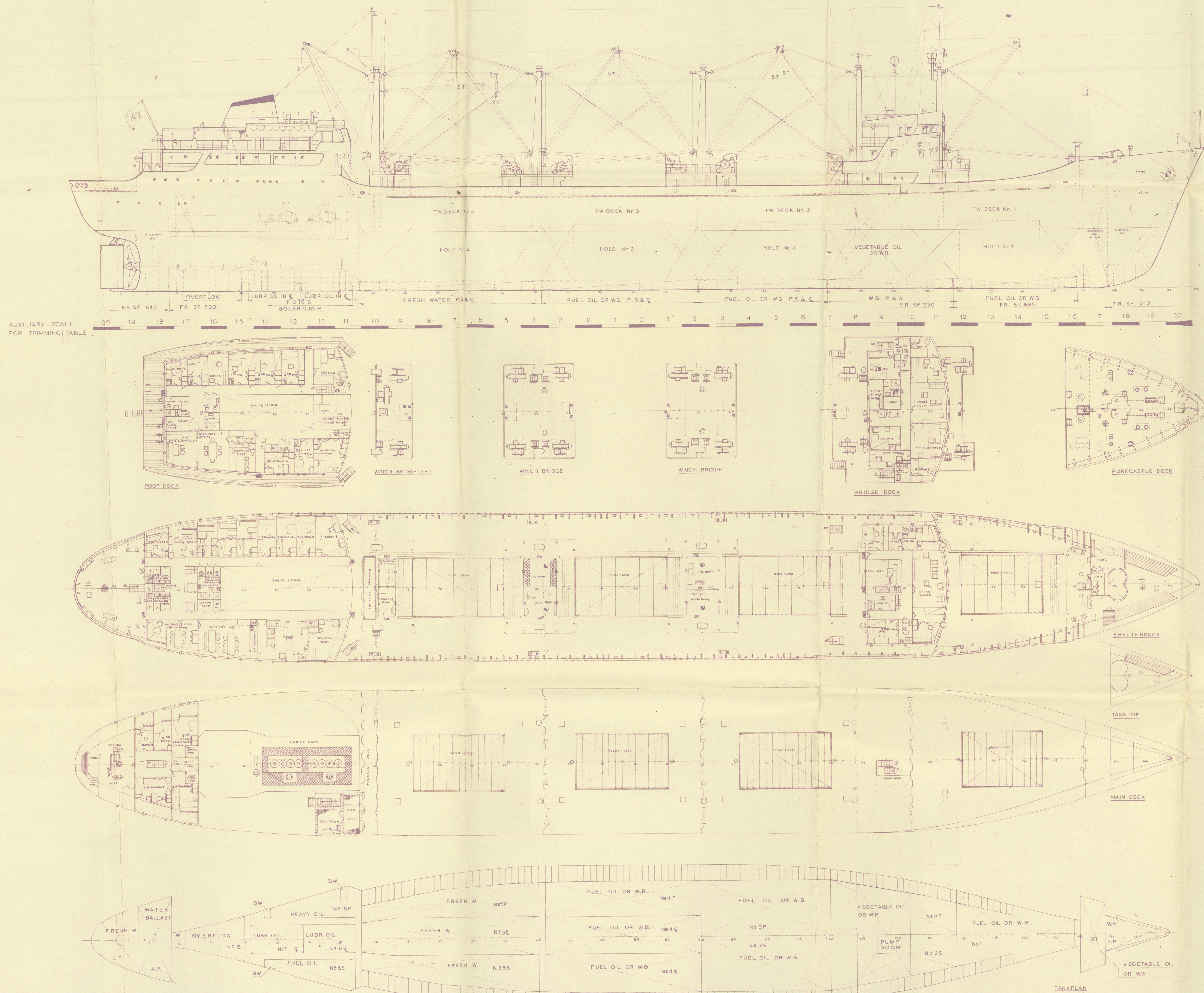
MACHINERY	
MAIN ENGINE ONE SINGLE ACTING DIRECT REVERSIBLE TWO CYCLE 8 CYLINDER MARINE DIESEL B&W 850 VTRF 110 WITH B&C TURBOCHARGERS.	
MOTOR OUTPUT 4160 BHP AT 155 RPM.	
AUXILIARY ENGINES: THREE 5 CYL 4 CYCLE ENGINES VALMET-B&W 520 MTBH-30 250 BHP/600 RPM. EACH ENGINE COUPLED TO A.C. GENERATOR 210 KWIA 450 V MAKE ASA.	
COMBINED EXHAUST/OIL FIRED BOILER, HEATING SURFACE 83 M², PRESSURE 7KG/CM² GENERATING 1500 KG/H OF STEAM.	

CAPACITIES OF CARGO HOLDS			
COMPARTMENT	GRAIN	BALE	
	M³	CUB FEET	M³
HOLD N°1	1174.7	41480	1047.3
HOLD N°2	1689.2	59650	1554.8
HOLD N°3	1722.9	60840	1581.8
HOLD N°4	1914.6	67610	1762.8
TOTAL HOLD	6501.4	229580	5946.2
TWEENDECK N°1	10080	35600	924.7
TWEENDECK N°2	10045	35610	1297.9
TWEENDECK N°3	1075.3	37970	991.8
TWEENDECK N°4	1154.9	40790	1068.9
TOTAL TWEENDECK	4842.8	163070	4283.3
TONNAGE WELL	84.6	2990	78.3
GRAND TOTAL CARGO	11228.8	396510	10307.8

TANK CAPACITIES					
COMPARTMENT:	VOLUME M³	SALT WATER FRESH WATER DIESEL OIL LUBR OIL HEAVY OIL	IT-1016 KG	IT-1016 KG	IT-1016 KG
		r=1.026 r=0.984 r=0.852 r=0.886 r=0.955			
D.B. TANK N°1	76.9	77.6	65.5		
D.B. TANK N°2	82.1	82.8			
D.B. TANK N°2 S	804	81.1			
D.B. TANK N°3 P	1060	107.0	90.3		
D.B. TANK N°3 S	1060	107.0	90.3		
D.B. TANK N°4 P	84.3	85.1	71.8		
D.B. TANK N°4 S	83.7	86.5	73.0		
D.B. TANK N°4 S	84.3	85.1	71.8		
D.B. TANK N°5 P	71.9		70.7		
D.B. TANK N°5 S	95.8		94.7		
D.B. TANK N°5 S	71.9		70.7		
D.B. TANK N°6 P	45.4			43.4	
D.B. TANK N°6 S	13.9			12.3	
D.B. TANK N°6 S	49.3		39.4		
D.B. TANK N°7	13.9			12.3	
D.B. TANK N°8	48.5		41.3		
SETTL TANK MAIN ENGINE	15.3		13.0		
SERV TANK P MAIN ENGINE	14.9		12.7		
SERV TANK S MAIN ENGINE	14.9		12.7		
F.O. TANK EMERGENCY	1.0		0.9		
BOILER OIL DAYTANK	2.0			2.4	
EXP. TANK COOLING WATER	2.0		2.0		
GALLEY STOVE SERV TANK	0.6		0.5		
TURBOCHARGER OIL	0.6			0.5	
TURBOCHARGER OIL	3.7			1.5	
SERV TANK AUX ENG	2.5		2.1		
KEROSENE TANK	0.7				
TRICHLORÉTYL TANK	0.7				
ENG OIL 31"33"	5.1			4.5	
ENG OIL 33"34"	3.4			3.0	
ENG OIL 34"35"	3.4			3.0	
CYL OIL 35"36"	3.4			3.0	
COMPR OIL 36"37"	3.4			3.0	
COUNTER TANK	46.2		45.5		
AFTERPEAK TANK	85.0	85.8			
FOREPEAK TANK	75.3	76.0			
TOTAL		876.0	293.2	585.3	431

CARGO TANK CAPACITIES					
COMPARTMENT	VOLUME M³	SALT WATER FRESH WATER DIESEL OIL LUBR OIL HEAVY OIL	IT-1016 KG	IT-1016 KG	IT-1016 KG
		r=1.026 r=0.984 r=0.852 r=0.886 r=0.955			
VEGETABLE OIL TANK 114"120"	510.2	514.8	460.7	483.2	485.2
VEGETABLE OIL TANK 150"154"	152.9	154.3	138.1	144.8	145.4
TOTAL		669.1	598.8	628.0	630.6

ALL PARTICULARS ARE BELIEVED TO BE CORRECT BUT NOT GUARANTEED.

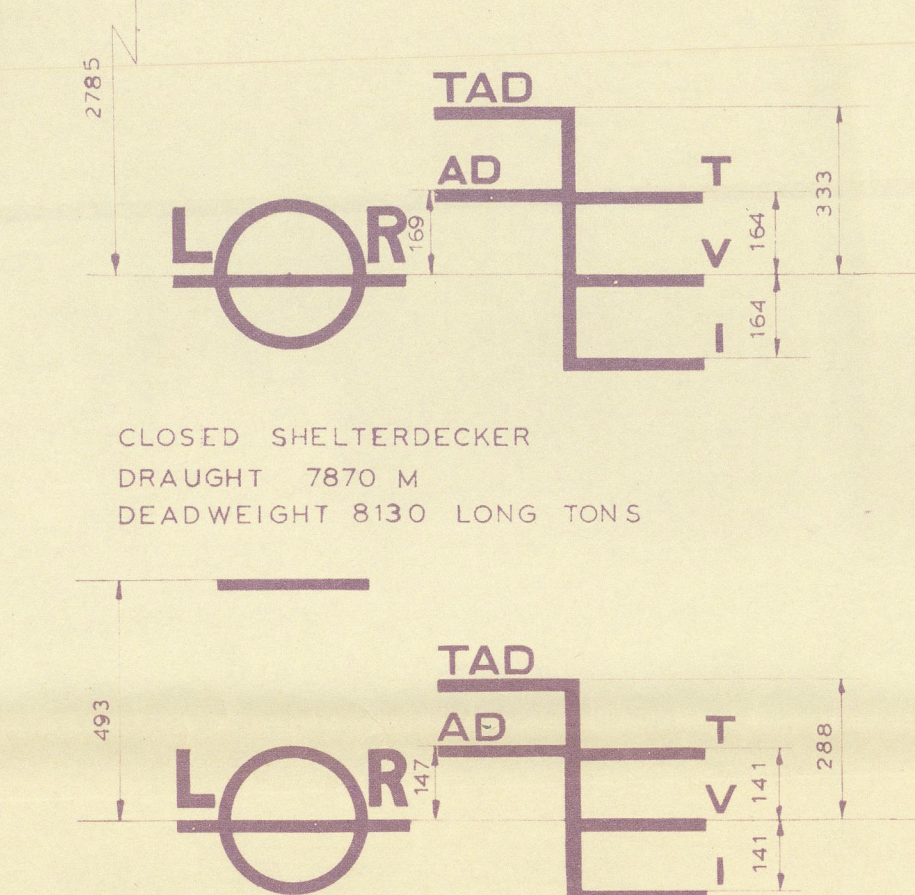


TRIMMING TABLE	
DRAUGHT	24'
DRAUGHT	18'
DRAUGHT	12'

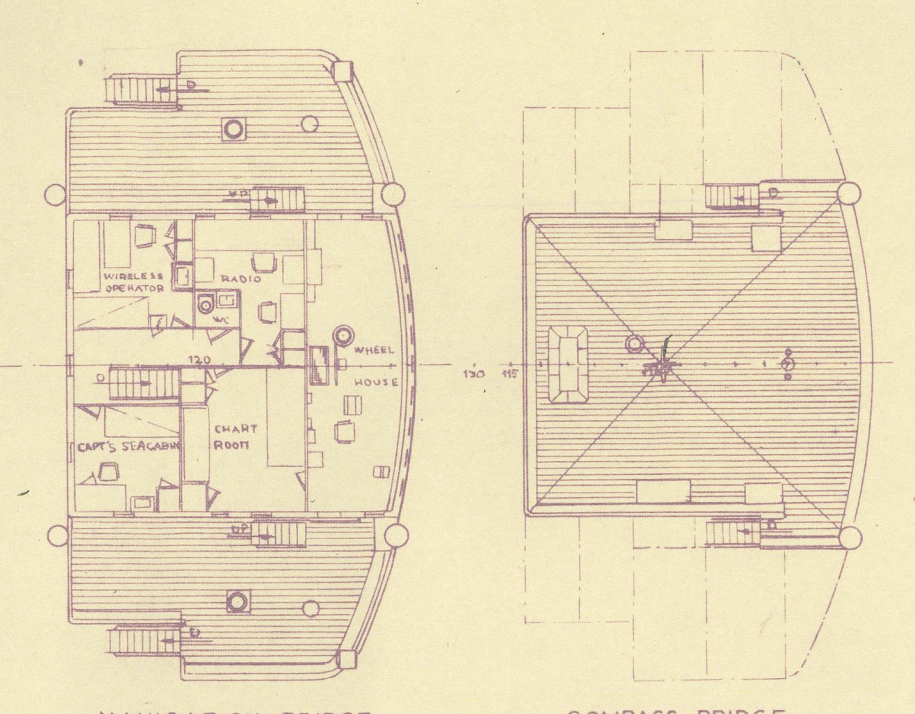
NOTE: THE ABOVE TRIMMING TABLE GIVES CORRECTION IN INCHES TO DRAUGHT FORWARD AND AFTER FOR EACH 100 TONS LOADED OR DISCHARGED AT ANY DISTANCE FROM AMIDSHIPS. WHEN DISCHARGING CHANGE THE SIGNS GIVEN IN THE TABLE FOR DRAUGHTS NOT MENTIONED USE THE NEAREST DRAUGHT IN THE TABLE.

EXAMPLE: FIND CORRECTION OF TRIM AFTER LOADING OR DISCHARGING 100 TONS IN AFTERPART OF HOLD N°4 FRAMES 38-43".

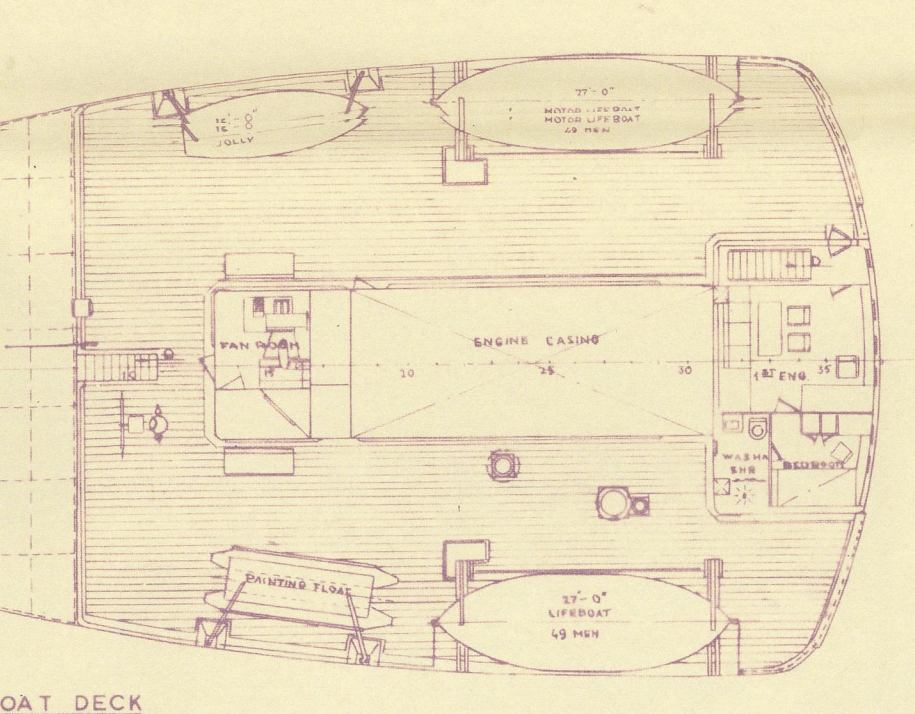
BENEATH THE LOAD ON THE AUXILIARY SCALE IS NUMBER 10 AND THE TRIMMING TABLE SHOWS FOR THIS NUMBER THE CHANGE OF TRIM AFT +8.6 IN AND FORW -3.4 IN.



CLOSED SHELTERDECKER  
DRAUGHT 7870 M  
DEADWEIGHT 8130 LONG TONS



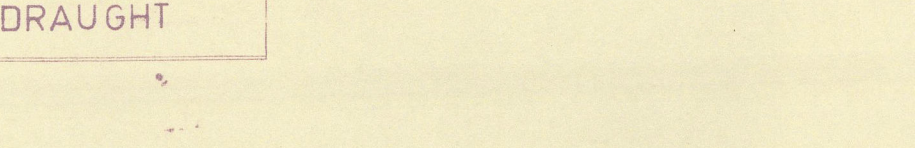
OPEN SHELTERDECKER  
DRAUGHT 6774 M  
DEADWEIGHT 6360 LONG TONS



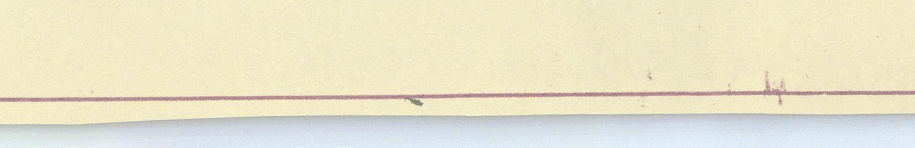
TOP OF ENGINE CASING



TANK TOP



MAIN DECK



BOAT DECK

LOADING SCALE									
SALT WATER			DRAUGHT		FRESH WATER				
TONS PER INCH	DISPLACE- MENT IN TONS	DEAD- WEIGHT IN TONS	METER	FEET	DEAD- WEIGHT IN TONS	DISPLACE- MENT IN TONS	TONS PER INCH		
11-1016 kg	11-1016 kg	11-1016 kg			11-1016 kg	11-1016 kg	11-1016 kg		
42	1000	8500	80	26	8000	11000	41		
	1000	8000		25	7500	10500			
	1000	7500		24	7000	10000	40		
41	1000	7000	70	23	6500	9500			
	9500	6500		22	6000	9000	39		
	9000	6000		21	5500	8500			
40	8500	5500	60	20	5000	8000			
	8000	5000		19	4500	7500	38		
39	7500	4500		18	4000	7000			
	7000	4000		17	3500	6500	37		
38	6500	3500	50	16	3000	6000			
	6000	3000		15	2500	5500	36		
37	5500	2500		14	2000	5000			
	5000	2000		13	1500	4500	35		
36	4500	1500		12	1000	4000			
	4000	1000		11	500	3500	34		
35	3500	500	30	10	0	3000			
	3000	0		9		2500	33		
34	2500		20	8					
				7					

## CAPACITY PLAN M/S PARANAGUÁ

CODE LETTERS:PUAE  
CLASS : LLOYD'S REGISTER OF SHIPPING \*100 A1

OWNER:  
COMISSÃO DE MARINHA MERCANTE  
RIO DE JANEIRO

BUILT 1961 BY  
**VALMET**  
HELSINGIN TELAKKA

FINLAND  
DRAWING 0 203 143 0.1  
SCALE 1:200  
26.3.1961



Helsingfors Rpt. 1. N° 8048

Valmet Oy.

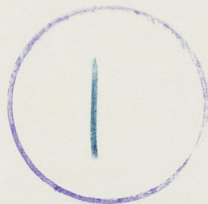
Yard N° 203.

M. S. "PARANAGUA"



CAPACITY PLAN.

RECORDS DEPT.,  
LONDON.



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