

REC'D NEW YORK NOV 28 1960

Rpt. 9 Date of writing report Nov. 14, 1960. Received London Port Curacao, N.A. No. 6095
Survey held at Willemstad, Curacao, N.A. No. of visits 2 First date and Last date Nov 12-18 1960

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 5404 Name S.S. "BERTA" Gross tons 2697 Date of build 7-1927
Owners N.V. Curacaosche Scheepv. Maats. Managers Port of Registry Willemstad
Engines made By Harland & Wolff, Ltd. Belfast Type T. 6 Cy. 13 1/2" 23 1/2" & 36" x 27"

No. of Main Engines 2 No. of Screws 2
No. of Main Boilers 2 W.P. 180 lbs.
No. of Aux./Donkey Boilers W.P.
Surveyed Afloat or in Dry Dock Afloat
Nature of Survey Main Boiler Repairs
Was Damage Report issued? No Int. Cert.? Yes

Hull		Machinery	
+100A1 Oil Tanker		+IMC	
S.S. (Mr)	5,53	E.S.	6,57
S.S.	7,57	M	8,59
D.S.	8,59	C.L. p	6,58
		s	5,56

WRECK SECTION No.

6047 - Eco

condition of any of the following items is to be described as "good" only when the part has been examined, found or placed in good condition, and is considered to be acceptable until due date of the next Periodical Examination. Where it is considered that re-examination or repairs should be effected before the due date of the next Periodical Examination a distinguishing mark thus † should be inserted against the item and the circumstances and action recommended described fully under "defects and repairs". At part or complete Special surveys those items which are not applicable to the ship should be cancelled with a black line; this need not be done when the machinery is on a continuous survey basis. When any part has been subjected to pressure test this should be stated. Engine parts when referred to by numbers should be counted from forward.

PROPELLERS Propellers Wear Down of Stern Bushes Oil Glands Sea Connections
Fastenings Has Screwshaft/Tubeshaft been drawn? Date of Examination Has Shaft been changed?
Has Shaft now fitted been previously used? Has Shaft now examined/fitted a continuous liner? Approved oil gland?

MAIN ENGINES (Recip. Steam or I.C.) PORT STARBOARD
Cyls., Covers, Pistons & Rods
Valves & Gears
Connecting Rods, Top Ends & Guides Side Centre
Crankpins & Bearings Side Centre
Journals & Bearings

MAIN ENGINE DRIVEN AIR COMPRESSORS
Cyls., Covers, Pistons & Rods
Connecting Rods & Top Ends
Crankpins & Bearings
Journals & Bearings
Coolers & Safety Devices

MAIN ENGINE DRIVEN SCAVENGE PUMPS
Cyls., Covers, Pistons & Rods
Connecting Rods & Top Ends
Crankpins & Bearings
Journals & Bearings
Valves

SCAVENGE BLOWERS
SUPERCHARGERS
MAIN TURBINES
Casings, Rotors, Blading, Bearings & Thrusts

EXHAUST STEAM TURBINES (WITH RECIP. ENGINES)
STEAM COMPRESSORS
CLUTCHES & HYDRAULIC COUPLINGS
REDUCTION GEARING
THRUST BLOCKS, SHAFTS & BEARINGS
INTERMEDIATE SHAFTS & BEARINGS
HOLDING DOWN BOLTS & CHOCKS
CONDENSERS (MAIN & AUX.)
STEAM RE-HEATERS
RE-SUPERHEATERS
STOP & MANOEUVRING VALVES
MAIN ENGINE DRIVEN PUMPS
CRANKCASE DOORS & EXPLOSION RELIEF DEVICES Have Main Engines been tested working and manoeuvring?

OPINION OF MACHINERY AND RECOMMENDATIONS
The machinery of this vessel, as far as now seen, is in good condition and eligible in my opinion to remain classed, without fresh record of survey, subject to conditions previously attached to the vessel's class.

Date of Committee As now
TUESDAY - 3 JAN 1961
Noted for
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Engineer-Surveyor to Lloyd's Register of Shipping
002620-002630-0117

If certificate is required state where to be sent.

32 Essential Independent Pumps (Identify by position).....
 33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls.....
 34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary?.....
 35 Fresh Water Coolers..... 36 Lub. Oil Coolers..... 37 Heaters (state service).....
 38 Independent Air Compressors, Coolers & Safety Devices.....
 39 Air Receivers & Safety devices—Main..... 40 Auxiliary.....
 41 Oil Fuel Tanks (Not forming part of hull structure).....
 42 Evaporators..... 43 Have Evaporator Safety Valves been tested under steam?.....
 44 Steering Machinery..... 45 Windlass..... 46 Fire Extinguishing Arrangements.....

AUXILIARY ENGINES (Identify by position).....

		ELECTRICAL EQUIPMENT		AUXILIARY EQUIPMENT	
PROPULSION	PORT	STARBOARD			
a	Generators			l	Generators & Governors
b	Exciters			m	Motors
c	Air Coolers			n	Switchboards & Fittings
d	Motors			o	Circuit Breakers
e	Air Coolers			p	Cables
f	Control Gear, Cables, etc.			q	Insulation Resistance
g	Insulation Resistance			r	Steering Gear Generators and Motors
h	Insulating Oil Test			s	Navigation Light Indicators
i	Overspeed Governors				
j	Magnetic Couplings				
k	Air Gap				

BOILERS OPENED UP & EXAMINED (Identify by position and state latest date of internal examination of each boiler)

MAIN AUXILIARY, DONKEY or PRESS.....
 Superheaters
 Safety Valves
 Mountings, Doors & Fastenings
 Safety Valves Adjusted to { Sat.
 { Spt.
 Boiler Securing Arrangements
 Main Economisers Exhaust Gas Heated Economisers
 Steam Heated Steam Generators Steam Generator Safety Valves Adjusted to
 Were Oil Burning System & Remote Controls examined working in accordance with Rules? Forced Circulating Pumps
 Have Saturated Steam Pipes in cylindrical boiler smoke boxes been examined as required by Rules? Funnel.....

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main Auxiliary (over 3 in. bore).....
 Were Copper Pipes annealed? Have Saturated Pipes in cylindrical boiler smoke boxes been tested?.....

PARTICULARS OF DEFECTS & REPAIRS, ETC. (Damage repairs should be detailed separate from wear and tear repairs; state what action has been taken regarding items which are subjects of class)

Starboard Main Boiler several plain and stay tubes in upper 5 rows found leaking in smoke boxes and flame boxes.
 Leakage stated caused by insufficient water in boiler. No damage report required.
 Found no distortion to tubes.
 Leaking tubes now re-expanded; boiler hydraulically tested and repairs proven tight.

LEAVE THIS SPACE BLANK

Survey fees Fls. 150.00

Damage fee

Expenses... .. 10.00

Late Fee

36.00

Date when A/c rendered.....



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