

Rpt. 9

-7. DEC. 1960

Date of writing report 31.10.60.

Received London

Port Liverpool

No. 155577

Survey held at Liverpool

No. of visits 15

First date 11.8.60.

Last date 12.10.60.

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 77425 Name ~~XXX~~ "RHODESIA CASTLE" S.S. Gross tons 17041 Date of build 1951 11
 Owners Union-Castle Mail Steamship Co. Ltd. Managers -- Port of Registry London
 Engines made 1951 By Harland & Wolff Ltd. Type 2 steam turbs. DR geared to sc. shaft.

Records of Survey & Special Notations as per Register Book

	Hull	LMC	CS	12,59
No. of Main Engines 2 No. of Screws 1				
No. of Main Boilers 3 WTB W.P. 5251b Spt. 4731b				
No. of Aux./Donkey Boilers 1db W.P. 1051b * ndb 52				
Surveyed Afloat or in Dry Dock Both	100A1	2,60	BS	12,59
Nature of Survey Dkg., T.S., C.S., Comm. M.B.S. & repairs	SS	2,60	M	12,59
Was Damage Report issued? No Int. Cert.? Yes			d	2,60
Last Report (For Head Office only)	with fbd DRsf - oil FP above	TS	CL	p2,58
	150°F. or veg. oil			s9,56
		S.P.S.	OF	2,58

The 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 the 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.

DOCKING Propellers Good Wear Down of Stern Bushes P.160", S.Close ~~out of order~~ Sea Connections Part (see over) Good
 Fastenings Good Has Screwshaft Tubeshaft been drawn? Stbd. Yes Date of Examination 7.9.60. Has Shaft been changed? No
 Has Shaft now fitted been previously used? - Has Shaft now examined/fitted a continuous liner? Yes ~~Approved by C.M.S.~~

MAIN ENGINES	PORT	STARBOARD
1 Cyls., Covers, Pistons & Rods		
2 Valves & Gears		
3 Connecting Rods, Top Ends & Guides	Side	
	Centre	
4 Crankpins & Bearings	Side	
	Centre	
5 Journals & Bearings		
MAIN ENGINE DRIVEN AIR COMPRESSORS		
6 Cyls., Covers, Pistons & Rods		
7 Connecting Rods & Top Ends		
8 Crankpins & Bearings		
9 Journals & Bearings		
10 Coolers & Safety Devices		
MAIN ENGINE DRIVEN SCAVENGE PUMPS		
11 Cyls., Covers, Pistons & Rods		
12 Connecting Rods & Top Ends		
13 Crankpins & Bearings		
14 Journals & Bearings		
15 Levers		
16 SCAVENGE BLOWERS		
17 SUPERCHARGERS		
MAIN TURBINES		
18 Casings, Rotors, Blading, Bearings & Thrusts	L.P. Good	
EXHAUST STEAM TURBINES (WITH RECIP. ENGINES)		
19 STEAM COMPRESSORS		
20 Flexible		
21 HYDRAULIC COUPLINGS	L.P. Good	
22 REDUCTION GEARING		Good
23 THRUST BLOCKS, SHAFTS & BEARINGS		Good
24 INTERMEDIATE SHAFTS & BEARINGS		Good
25 HOLDING DOWN BOLTS & CHOCKS		
26 CONDENSERS (MAIN & AUX.)	Gland Steam - Good	Gland Steam - Good
27 STEAM RE-HEATERS		
28 DE-SUPERHEATERS		
29 STOP & MANOEUVRING VALVES		
30 MAIN ENGINE DRIVEN PUMPS		
31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES		

OPINION OF MACHINERY AND RECOMMENDATIONS The machinery of this vessel in our opinion is eligible to remain as classed, with fresh record Starbd. T.S.(C.L.) 9,60, now, and M.B.S. 10,60, and C.S. (with date) on completion of respective surveys.

Date of Committee LIVERPOOL - 6 DEC 1960
 Decision As now
 5 T.S (CL) 9.60

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 J. Findlay
 R. Lloyd

155577 7 DEC 1960

Port of Liverpool

on the S.S./M.S. "RHODESIA CASTLE"

new circuit breaker, preference trip, and remote stops were tested on completion, and found to be in order.

The installation is in accordance with the approved plans.

J. Findlay WA

- 32 Essential Independent Pumps (Identify by position) Auxiliary condenser circulating, forward fire and sanitary, sprinkler system, harbour feed, port forward lubricating oil cooler circulating - Good
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 Both Good
43 Have Evaporator Safety Valves been tested under steam? Both Yes
44 Steering Machinery
45 Windlass
46 Fire Extinguishing Arrangements

AUXILIARY ENGINES (Identify by position) Emergency generator Good

Table with columns: PROPULSION, PORT, STARBOARD, ELECTRICAL EQUIPMENT, AUXILIARY EQUIPMENT. Rows include Generators, Exciters, Air Coolers, Motors, Control Gear, Cables, etc., Insulation Resistance, etc.

BOILERS OPENED UP & EXAMINED (Identify by position and state latest date of internal examination of each boiler) MAIN Starboard (24.8.60.) Good
Superheaters Starboard Good
Safety Valves Starboard Good
Mountings, Doors & Fastenings Starboard Good
Safety Valves Adjusted to Sat. Starboard 495 lbs/psi. Spt. Starboard 486 lbs/psi.
Boiler Securing Arrangements Good
Were Oil Burning System & Remote Controls examined working in accordance with Rules? No

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)

Note :- All starboard side sea connections were examined. To complete the survey for fresh record M.B.S. 10,60, the port and centre boilers remain to be examined in their entirety, and afterwards these boilers to be examined under steam, their safety valves adjusted, and the oil burning system, and remote controls examined and tested.

Repairs, Wear and Tear.

Starboard stem bushes rewooded. The lower 36 rows of tubes in the starboard main boiler superheater were renewed because of wastage. On completion a satisfactory hydraulic test was witnessed on this superheater. At the Owners' request, the port donkey boiler safety valves were adjusted to 100 lbs/psi. It was stated that these valves had been overhauled.

Modifications.

Air conditioning machinery was installed during the vessel's stay here, and the following modifications were carried out in connection with this plant. Two new 6" bronze sea valve chests were satisfactorily hydraulically tested and fitted. The alterations to the electrical equipment were surveyed during installation.

Handwritten notes: D. de Vries, T. sec., 11/10. comm. CS advanced repairs, collection. TSEL (S) 9/60. M. 10/60. on completion on per this repl. 23/10/60.



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Handwritten summary: Survey fees T.S. £ 7-0-0 C.S. £ 35-0-0 P.M.B.S. £ 14-0-0 Reps & modifications £ 25-0-0 Expenses £ 3-15-0

Date when A/c rendered - 2 DEC 1960

