

28. AUG. 1961

7886

Rpt. 9

Date of writing report 14-8-61

Survey held at Newcastle, N.S.W.

Received London

No. of visits 6

Port Newcastle, N.S.W.

First date 31-7-61

No.

Last date 11-8-61

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 77751 S.S. Name "RIVER FITZROY"

Owners Australian Coastal Shipp. Comm.

Gross tons 4958

Date of build 11-1944

Engines made 1944 By Commonwealth Gov. E. Works

Port of Registry Brisbane

No. of Main Engines 1 No. of Screws 1

No. of Main Boilers 2 W.P. 240 lb.

No. of Aux./Donkey Boilers - W.P. -

Surveyed Afloat or in Dry Dock Both

Nature of Survey D.S., Comm't M.B.S. & E.S.

Was Damage Report issued? No Int. Cert? Yes

Last Report (For Head Office only)

Records of Survey & Special Notations as per Register Book

Hull	Machinery
+100A1	+L.M.C.
S.S. 3/58	E.S. 10/57
D.S. 9/60	M.B.S. 8/60
	T.S. Cl. 9/60

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 Propeller Good Wear Down of Stern Bushes 5/32" Oil Glands Sea Connections

Fastenings Good Has Screwshaft/Tubeshaft been drawn? No 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

1 Cyls., Covers, Pistons & Rods M.P. & L.P. - Good

2 Valves & Gears

3 Connecting Rods, Side Centre M.P. & L.P. - Good

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

SCAVENGE BLOWERS

SUPERCHARGERS

MAIN TURBINES

18 Casings, Rotors, Blading, Bearings & Thrusts

19 EXHAUST STEAM TURBINES (WITH RECIP. ENGINES)

20 STEAM COMPRESSORS

21 CLUTCHES & HYDRAULIC COUPLINGS

22 REDUCTION GEARING

23 THRUST BLOCKS, SHAFTS & BEARINGS

24 INTERMEDIATE SHAFTS & BEARINGS

25 HOLDING DOWN BOLTS & CHOCKS

26 CONDENSERS (MAIN & AUX.)

27 STEAM REHEATERS

28 DE-SUPERHEATERS

29 STOP & MANOEUVRING VALVES

30 MAIN ENGINE DRIVEN PUMPS

31 CRANKCASE DOORS & EXPLOSION-RELIEF DEVICES

Have Main Engines been tested working and manoeuvring?

OPINION OF MACHINERY AND RECOMMENDATIONS This vessel's machinery as far as seen is now in good condition and in my opinion is eligible to remain as classed, subject to all conditions at present attached to the class of the vessel's machinery being dealt with as previously recommended and to the fresh record of E.S. (with date) when the Survey has been completed and M.B.S. 8/61 when the tubes of both boilers have been examined and the safety valves on the Port boiler adjusted under steam.

Date of Committee

Decision As now, subject

Noted for Header

RPT. 9-J. & O'S. 3000-9/58 (PRINTED IN AUSTRALIA)

J.H. Cowell. 2020
Engineer Surveyor to Lloyd's Register of Shipping



Lloyd's Register Foundation

004621-004629-0126 1/2

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

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

MAIN Port Starb. 31-7-61

Both good except tubes on P & S Boilers †

Superheaters Both good

Safety Valves Both good

Mountings, Doors & Fastenings Both good

Safety Valves Adjusted to { Sat. Starb. 240 p.s.i.
Spt. Starb. 220 p.s.i.

Boiler Securing Arrangements Good

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? Yes Forced Circulating Pumps

Have Saturated Steam Pipes in cylindrical boiler smoke boxes been examined as required by Rules? Funnel Good

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)

Repairs.

M.P. cylinder liner renewed, L.P. piston rod found worn and new rod made and fitted from forging marked

Lloyds Syd. No. 870 E.B.S. 30-11-60.

Boiler tubes †

3 fire row tubes renewed on Starb. and 4 fire row tubes on Port boiler renewed on account of excessive upward deflections.

† The inside of the fire row and generating tubes of both boilers found to be covered with a thick layer of fine black deposit and some pitting noted in way of the tube ends.

It was stated that a chemical cleaning process had been carried out in the boilers recently and an excess amount of chemicals used which removed all the scale from the tubes.

An analysis has been made of the deposit which was found to be a form of oxide of iron caused by oxygen attack on the bare metal of the tubes and arrangements were made for boilers to be treated with lime to form a thin protective film of scale on the tubes.

It now appears that the vessel will be laid up in Sydney for an indefinite period and it will not be possible to carry out this treatment and the tubes may be exposed to further attack. and it was recommended that a further cont.

LEAVE THIS SPACE BLANK

Survey fees M.B.S. £8. 0. 0.

Comm't. E.S. 10. 0. 0.

Damage fee

Expenses See Rpt. 8.

Date when A/c. rendered 11-3-64

"RIVER FITZROY".

examination be made of the tubes of both boilers before the completion of the survey. Surveyors advised.

In S.R. list No. 182 "Diesel engine to be examined by 6/61". The Owners state that all repairs have been completed and will arrange to have this engine examined under working conditions at Sydney after some adjustments have been made to the fuel valve timing.

J. H. Cowell
(J. H. Cowell).



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