

No. 1106

Report of Survey for Repairs, &c., of Engines and Boilers

Received at London Office 20 APR 1951

Writing Report 10th hand 1951 When handed in at Local Office 10th hand 1951

Port of MELBOURNE

Survey held at Melbourne Date: First Survey 5th May 1950 Last Survey 26th Jan 1951
on the Machinery of the Wood, Iron or Steel S.S. ELLA ROO (No. of Visits 3)

Gross 4655 Vessel built at Sunderland By whom J. L. Thompson & Sons When 1921 4
Net 2846 Engines made at Newcastle / Tyne By whom Armstrong Whitworth & Co When 1921
347 Boilers, when made (Main) (Donkey)
3 Owners Melbourne S.S. Co Ltd Owners' Address
Donkey Boilers Managers Port Melbourne Voyage Coastal
Boilers 180 If Surveyed Afloat or in Dry Dock Both
Key Boilers (State name of Dock.)

Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

Port No. Port
Reasons of Examination and Repairs (if any) Special Survey

Surveys, when held, must be reported in detail and seriatim in the terms of the Rules. State clearly the Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and any detailed in the body of the report, should be briefly summarised at the end of the report. State also the initials of any letters respecting this case).

Where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined.

Report made by anyone else? If so, by whom?

Did you personally go inside each Main Boiler separately and make a thorough examination at this time? Yes

Donkey "

done, state for what reasons?

Of the Boilers could not thus be thoroughly examined?

Means, in the absence of internal examination, were adopted by the Surveyor to ensure the thorough efficiency of those parts of each Boiler?

Of internal examination of each boiler Port & Centre 10-1-51 Starboard 24-1-51

Present condition of funnel(s) Good

Examine the Safety Valves of the Main Boilers Yes

To what pressure were they afterwards adjusted under steam? 180 lbs per sq in.

Examine the Safety Valves of Donkey Boiler?

To what pressure were they afterwards adjusted under steam?

Examine all the manholes, doors and their fastenings of the Main Boilers? Yes

and of the Donkey Boilers?

Examine the drain plugs of the Main Boilers?

and of the Donkey Boilers?

Examine all the mountings of the Main Boilers? Yes

and of the Donkey Boilers?

Have been drawn and examined? No

Is it fitted with continuous liner?

Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated?

Has it been changed? If so, state reasons.

Has it been previously used?

Has it a continuous liner?

Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated?

Examination of Screw Shaft

State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft 3/32"

Parts, when referred to by numbers, should be counted from forward.

Is electric light and/or power fitted? Yes

Did the Surveyor examine the generators, motors, switchgear, cables and fuses? Yes

Insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? Yes

If not complete, state what arrangements have been made for its completion and what remains to be done. Complete

Vessel placed in dry dock, the propeller, outer end of stern bush with fastenings examined and all found in good condition.

Main engine, H.P. I.P. + L.P. cylinders, pistons and rods, rings, valves, chests and crankshafts, thrust and intermediate shafting and bearings, attached air, bilge feed pumps examined. The main and auxiliary condensers examined and tested. Suction and discharge valves examined. The valves, cocks, piping and arrangements of pumping arrangements examined. The evaporators examined internally with soundings and relief valve later adjusted under steam. Spare gear examined and in order. All copper main steam pipes and auxiliary steam pipes over 3 inches insulated and tested to 360 lbs per sq in. P.T.O.

Observations, Opinion, and Recommendation:— This vessel's machinery is in good

order and in my opinion eligible to remain as classed and have a certificate of LMC 1,51 made in the Register Book.

Early what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any other required to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, B.S. 9,11, B.&M.S. 9,11 + L.M.C. 9,11, or C. 140 lb., F.D., &c.)

per Section 29) £ 45 : 0 : 0 Fees applied for, 8/21 1951
Age or Repair Fee (if any) £ 9 : 0 : 0
per Section 29.) £ 4 : 0 : 0 Received by me, J. L. Thompson

TUES. 15 MAY 1951

+ LMC 1,51

CERTIFICATE WRITTEN (2.7.51)

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Engineer Surveyor to Lloyd's Register of Shipping.

002620-002630-0189

Insert Character of Ship and Machinery precisely as in the Register Book.

Is a Certificate required? If so, to be sent to

The boiler and mountings opened out, cleaned and examined internally and externally and now found to be in good condition. The boiler was examined under steam, found sound and tight and safety valve adjusted to 180 lbs per sq in.

The electrical installation examined. The generator engine opened out all parts examined. The generator, switchboard, distribution and fuel pump examined. The wiring fitted to the accommodation to Rule Requirements cables and wiring examined and the installation megger tested and found in good condition.

All machinery parts now examined, found to be in good condition and the main and auxiliary machinery examined under steam and found in good order.

Repairs. Main engine. Spare I.P. piston rod fitted

I.P. valve rod skimmed. I.P. guide shoe reinstalled.

Manoeuvring valve spindle thread re-cut + new nut fitted.

Aux.

Aux condenser the waterbox fitted.

Main circulating pump. New piston valve, the impeller casing, in shape built up + new bearings fitted.

Aux circulating feed pump. New water and liners fitted and buckets skimmed.

Boiler

Port. Port furnace 7 Bowler neck rivets renewed
Centre " 6 " " " " + 3 plain

Port bottom flanged landing for manhole door built up

Centre Port furnace 6 Bowler neck rivets renewed
Centre " 3 plain, 3 steam tubes renewed.