

# REPORT OF SURVEY FOR REPAIRS, &c., OF ENGINES AND BOILERS

(Received at London Office 27 7 1942)

Date of writing Report 27 7 1942 When handed in at Local Office 27 7 1942

No. in Survey held at Glasgow Date First Survey July 2 Last Survey 13 4 July 1942

2687 on the Machinery of the Vessel Iron or Steel Twin Sc. "Duchess of Atholl" No. of Visits 13

Gross 20119 Vessel built at Dalmeir By whom W. Beardmore & Co. Ltd When 1928-6

Net 11772 Engines made at do By whom do When 1928

Nominal 355 Boilers, when made (Main) 1928 (Donkey) 1928

orse Power 6 H.P. Owners Canadian Pacific Railway Owners' Address

of Main Boilers 2 Managers Canadian Pacific S.S. Co. Ltd Port London Voyage

of Donkey Boilers 2 Managers Canadian Pacific S.S. Co. Ltd Port London Voyage

eam Pressure 370 lb. If Surveyed Afloat or in Dry Dock Yes

in Main Boilers 200 lb. (State name of Dock) King George V Dock

in Donkey Boilers 200 lb.

ast Report No. 3100. Port C.T.N. Part L.M.C

Particulars of Examination and Repairs (if any) " B.S.

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

Where cases 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.

Has a damage report made by anyone else? If so, by whom?

Has the Surveyor personally gone inside each Main Boiler separately and made a thorough examination at this time?

Forward Scotch Donkey Yes

Has the survey not been done, state for what reasons?

What parts of the Boilers could not be thus thoroughly examined?

What special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler?

Latest date of internal examination of each boiler Forward Scotch 3-7-42 Present condition of funnel good

Has the Surveyor examine the Safety Valves of the Main Boiler? Forward Yes To what pressure were they afterwards adjusted under steam?

Has the Surveyor examine the Safety Valves of Donkey Boiler? Forward Yes To what pressure were they afterwards adjusted under steam? not yet adjusted

Has the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? Forward Yes and of the Donkey Boilers?

Has the Surveyor examine the drain plugs of the Main Boilers? Forward none and of the Donkey Boilers?

Has the Surveyor examine all the mountings of the Main Boilers? Forward Main Stop valve (only) and of the Donkey Boilers?

Has the screw shaft now 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 the shaft now been changed? If so, state reasons? Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated?

Has the shaft now fitted 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?

Date of examination of Screw Shaft State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft

Engine parts, when referred to by numbers, should be counted from forward. Is electric light and/or power fitted Yes

Has the Surveyor examine the generators, motors, switchgear, cables and fuses?

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

If Survey is not complete, state what arrangements have been made for its completion and what remains to be done To complete L.M.C. (See Liverpool report No. 115787) There remains to be done. Starboard gearing, Thrust and intermediate shafting, Starboard bulkhead stop valve, ahead & astern and double shut off valves, Starboard air pump, main circulating pumps, Hotwell pumps, Lubricating oil pumps, Recip. feed pumps, Oil fuel pumps, General Service, Bilge, Turb. feed, Oil transfer, Fresh water, and Emergency Bilge pumps, Starboard Steering engine pump, Port turbo generator, Port & Starboard Condensers, Port Diesel generator, Pumping arrangement, Air Receivers for Diesel generators, Steam pipes to test to Rule requirements.

To Complete B.S. (See Liverpool report No. 117609) There remains to be done.

General Observations, Opinion, and Recommendation: The machinery of this vessel so

(State clearly 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 alteration 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 L.M.C. 140 lb., F.D., &c.)

as now seen is in a safe working condition and eligible in my opinion to remain as classed and to have fresh record of L.M.C. 12.39 and B.S. 342 on completion of Survey as above.

Survey Fee (per Section 29) Paid 28 7 1942 Fees applied for 28 JUL 1942

Special Damage or Repair (per Section 29) any? Licence Received by me, 28 AUG 1942

Relevelling expenses (if any) GLASGOW 28 JUL 1942

Committee Assigned Refused for Comm B.S.

Deferred

W. E. Murdoch Engineer Surveyor to Lloyd's Register of Shipping

W. E. Murdoch

Lloyd's Register Foundation



Twin Sc. Duchess of Atholl

done. The following boiler mountings require to be examined, and afterwards all safety valves adjusted under steam to above pressures.

Forward and after Scotch Boilers all mountings to examine except main stop Valves  
Forward Port & Starb. & aft Starb. Water tube boilers all mountings to examine except feed check valves.

Forward Centre and after Port and Centre. water tube boilers all mountings to examine.

It was stated that the L.H.C. will be further advanced and B.S. Completed on the vessels return to the U.K. in a few months time.

Now done. Part L.H.C. Starboard after aux diesel engine and Compressor examined (except air bottles) and found good.

Now done Part B.S. Forward donkey boiler examined internally and externally together with manholes, doors, and fastenings main stop valve opened up and examined and found good.

Note Additional voyage repairs carried out at the request of M.S.R.

G. E. Murdoch

Med.

100 and 104 part held 212 ahead

Widene 640 advanced

27/8/42



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