

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 2nd June 1945 When handed in at Local Office 9 6 ^{10th} Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 10th Aug 1944 Last Survey 31st May 1945
 Reg. Book 110 (Number of Visits 110)
 on the H.M.S. Transport ferry No 3037 Tons { Gross 4157
 Built at Glasgow By whom built Fairfield S. & G. Yard No. 723 When built 1945-5
 Engines made at Greenock By whom made Rankin & Blackmore Engine No. 5012 When made 1945
 Boilers made at Glasgow By whom made Babcock & Wilcox Ltd Boiler No. 10/1630 N-1112 When made 1945
 Registered Horse Power 5500 Owners Admiralty Port belonging to
 Horse Power as per Rule 658.75 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes
 Use for which vessel is intended

DETAILS, &c.—Description of Engines
 No. of Cylinders 2 Length of Stroke 10.74 No. of Cranks 2 Revs. per minute 10.04
 Diameter of Journals 10.04 Crank pin dia. 10.34 Crank webs shrunk Thickness parallel to axis 10.04
 Intermediate Shafts, diameter 10.04 Thrust shaft, diameter at collars 10.42
 Main Shafts, diameter 10.74 Screw Shaft, diameter 10.34 Is the { tube } shaft fitted with a continuous liner { No liner }

Propeller, dia. 10'-0" Pitch 10'-2" No. of Blades 3 Material Bronze whether Moveable No Total Developed Surface 35 sq. feet
 Length of Bearing in Stern Bush next to and supporting propeller 5'-6"
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes
 Is an approved Oil Gland or other appliance fitted at the after end of the tube Yes

Pumps worked from the Main Engines, No. 2 Diameter 4 2/8" x 10 1/2" x 2 2" Stroke 2 2" Can one be overhauled while the other is at work Yes
 Pumps connected to the Main Bilge Line { No. and size 4 2/10" x 8" x 10" 2 2/14" x 12" x 12" How driven Steam }
 Lubricating Oil Pumps, including Spare Pump, No. and size 2 2/14" x 12" x 12"
 Suctions, connected to both Main Bilge Pumps and Auxiliary Yes
 In Holds, &c. 1 2/5", 2 2/3", 4 2/2 1/2"

Water Circulating Pump Direct Bilge Suctions, No. and size 2 2/9" Independent Power Pump Direct Suctions to the Engine Room Bilges, Yes
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes
 Are they fitted with Valves or Cocks Yes
 Are the Overboard Discharges below below the deep water line Yes, except Bilge Ejector
 Are the Blow Off Cocks fitted with a spigot and brass covering plate Values with Lines

BOILERS, &c.—(Letter for record W.T.) Total Heating Surface of Boilers 10650 sq
 Which Boilers are fitted with Forced Draft Both Which Boilers are fitted with Superheaters No
 and Description of Boilers Two - three drum type Working Pressure 225 lbs.

A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 A DONKEY BOILER FITTED? No If so, is a report now forwarded? No

Are approved plans forwarded herewith for Shafting 3.5.44 Main Boilers Auxiliary Boilers Donkey Boilers
 General Pumping Arrangements 9 Oil fuel Burning Piping Arrangements 11.12.44

SPARE GEAR.
 Is the spare gear required by the Rules been supplied as per specification
 Is the principal additional spare gear supplied Yes

The foregoing is a correct description.
 For The FAIRFIELD SHIPBUILDING & ENGINEERING Co. Ltd.,
 Joint Managing Director



During progress of work in shops - - 1944 Aug 10, 14, 28 Sep 4, 14, 15, 18, 20, 22, 27 Oct 3, 6, 9, 10, 13, 14, 18, 19, 26, 27, 30, 31 Nov 1, 2, 3, 7, 9, 13, 14, 15, 16, 20, 23, 24, 28, 29 Dec 1, 4, 5, 13, 15, 19, 21, 22, 25, 26, 27, 28, 1945 Jan 3, 4, 5, 8, 10, 11, 12, 15, 17, 18, 24, 29, 30, 31 Feb 1, 5, 7, 14, 15, 20, 23, 24, 28 Mar 2, 5, 6, 7, 12, 13, 14, 15, 16, 19
 During erection on board vessel - - - 27, 28, 29, 30, 31, 1, 2, 3, 4, 5, 6, 10, 12, 16, 17, 20, 24, 25, 26, 27, 28, 29, 30, 31, 1, 2, 3, 4, 11, 16, 24, 25, 26, 27
 Total No. of visits 110

Dates of Examination of principal parts—Cylinders _____ Slides _____ Covers _____
 Pistons _____ Piston Rods _____ Connecting rods _____
 Crank shaft _____ Thrust shaft _____ Intermediate shafts _____
 Tube shaft _____ Screw shaft _____ Propeller 17.1.45
 Stern tube 10.1.45 Engine and boiler seatings 31.1.45 Engines holding down bolts 16.17/4/45
 Completion of fitting sea connections 30.1.45
 Completion of pumping arrangements 25.5.45 Boilers fixed 5.4.45 Engines tried under steam 31.5.45
 Main boiler safety valves adjusted P 4/5 S 3/5/45 Thickness of adjusting washers P 13/32 S 15/32 S 7/16 P 13/32
 Crank shaft material Identification Mark Thrust shaft material O.H. Steel Identification Mark F 9779
 Intermediate shafts, material supplied by Admiralty S 7905, 2027B, 2212 Identification Marks Tube shaft, material Identification Mark
 Screw shaft, material O.H. Steel Identification Mark L.R. S 30138 - 30139 S.D. Steel Test pressure 675 lbs Date of Test 12.16.24
 Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150° F. Yes
 Have the requirements of the Rules for the use of oil as fuel been complied with Yes
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo. No If so, have the requirements of the Rules been complied with
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with
 Is this machinery duplicate of a previous case. Yes If so, state name of vessel Transport ferry No 3036

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery has been installed in accordance with the approved plans and the terms of the statement of machinery requirements. The machinery was examined under full working conditions on board with satisfactory results. Safety Valves of both boilers were adjusted under steam as above and accumulation tests satisfactorily carried out. The intermediate shafting and the propeller, also the survey of the electrical installation has been carried out under the supervision of the Admiralty representative. The machinery of this vessel is eligible in my opinion to have the record of L.M.C + 5.45 with the notation of T.S. (O.G.) in the Register Book.

The amount of Entry Fee ... £ :
 Special Installation Specification £ 23 : -
 Donkey Boiler Fee ... £ 23 : -
 Travelling Expenses (if any) £ :
 When applied for, 19 JUN 1945
 When received, 19

ADMIRALTY J. G. H. Macdonald
 A/c rendered from 2 AUG 1945
 London
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute ... GLASGOW 19 JUN 1945
 Assigned ... L.M.C + 5.45



Certificate to be sent to ...
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)