

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 23 JUL 1941

Date of writing Report 15th July 1941 When handed in at Local Office 19.7.41 Port of Glasgow
 No. in Survey held at Paisley Date, First Survey 25:10:40 Last Survey 16:7:1941
 Reg. Book. on the of (Number of Visits 36) Tons } Gross
 Built at of By whom built R. Dunlop Ltd Yard No. 358 When built } Net
 Engines made at Paisley By whom made McKie & Baxter Ltd Engine No. 1327 When made 1941
 Boilers made at Glasgow By whom made John Thompson (Main Bldg) Ltd Boiler No. 5156 When made
 Registered Horse Power Owners Port belonging to
 Nom. Horse Power as per Rule 85 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 140
 Dia. of Cylinders 12-20-32 Length of Stroke 22 No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 6.44 Crank pin dia. 6 1/2 Crank webs Mid. length breadth shrunk Thickness parallel to axis 4 1/8
 as fitted 6 1/2 Mid. length thickness shrunk Thickness around eye-hole 2 1/2
 Intermediate Shafts, diameter as per Rule 6.13 Thrust shaft, diameter at collars as per Rule 6.44
 as fitted 6 1/4 as fitted 6 1/2
 Tube Shafts, diameter as per Rule 4.12 Screw Shaft, diameter as per Rule 7 1/8 Is the tube shaft fitted with a continuous liner }
 as fitted ✓ as fitted ✓ as fitted ✓ as fitted ✓ }
 Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule Is the after end of the liner made watertight in the
 as fitted ✓ as fitted ✓ as fitted ✓ as fitted ✓ }
 propeller boss ✓ If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓
 If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓
 If two liners are fitted, is the shaft lapped or protected between the liners ✓ Is an approved Oil Gland or other appliance fitted at the after end of the tube
 shaft Yes If so, state type Newark - Type N°3 Length of Bearing in Stern Bush next to and supporting propeller 29
 Propeller, dia. 8'-3" Pitch 10'-0" No. of Blades 4 Material Cast iron whether Movable No Total Developed Surface 24 sq. feet
 Feed Pumps worked from the Main Engines, No. one Diameter 2 1/2 Stroke 12" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. one Diameter 2 1/2 Stroke 12" Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size } Pumps connected to the { No. and size }
 { How driven } Main Bilge Line { How driven }
 Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size ✓
 Are two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room
 In Pump Room In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes
 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
 Are all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges above or below the deep water line
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
 What Pipes pass through the bunkers How are they protected
 What pipes pass through the deep tanks Have they been tested as per Rule
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one
 compartment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 1356 sq ft
 Is Forced Draft fitted Yes No. and Description of Boilers One single ended Working Pressure 20 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? No
 IS A DONKEY BOILER FITTED? If so, is a report now forwarded?

PLANS. Are approved plans forwarded herewith for Shafting 29-11-39 Main Boilers 6-11-39 Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements ✓

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes - as per attached sheet
 State the principal additional spare gear supplied

The foregoing is a correct description.

FOR MCKIE & BAXTER, LIMITED

[Signature]

Manufacturer.

DIRECTOR



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Lloyd's Register Foundation

1940 Oct: 25-29 Nov: 7 Dec: 18-25-31 (1941) Jan: 7-10-27 Feb: 7-12-18-26 Mar: 3-10-12-19
 During progress of work in shops -- 24-26-31 Apr: 4-10-15-24 May: 1-9-14-21-23-30 June: 5-12-13-20 July: 7-16
 Dates of Survey while building {
 During erection on board vessel ---
 Total No. of visits 36

Dates of Examination of principal parts—Cylinders 31-3-41 to 15-4-41 Slides 24-4-41 Covers 31-3-41 to 15-4-41
 Pistons 24-4-41 Piston Rods 5-6-41 Connecting rods 5-6-41
 Crank shaft 14-5-41 Thrust shaft 14-5-41 Intermediate shafts 14-5-41
 Tube shaft ✓ Screw shaft 26-3-41 Propellers 26-3-41 - 28-5-41
 Stern tube 24-3-41 Engine and boiler seatings Engines holding down bolts

Completion of fitting sea connections
 Completion of pumping arrangements Boilers fixed Engines tried under steam
 Main boiler safety valves adjusted Thickness of adjusting washers
 Crank shaft material Steel Identification Mark 9922 GAL Thrust shaft material Steel Identification Mark 5528 GAL
 Intermediate shafts, material Steel Identification Marks 5558 GAL Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark 5554 GAL Steam Pipes, material Test pressure Date of Test

Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150°F.
 Have the requirements of the Rules for the use of oil as fuel been complied with
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo 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 No If so, state name of vessel ✓
 General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been constructed under special survey in accordance with the Society's Rules and approved plans, and also in accordance with specification. The materials and workmanship are good. The engine has been despatched to Thorne for installation in mesero Richard Dunstons yard No 358

906
 19/7/41

The amount of Entry Fee ... £ : :
 Special 2/21-5-0 £ 8 : 10 : 22 JUL 1941
 Donkey Boiler Fee ... £ 2 : 2/6 :
 Travelling Expenses (if any) £ : : 10

G. Anderson
 For survey by H. A. Lang.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 22 JUL 1941
 Assigned Deferred

TUE. 30 SEP 1941



The Surveyors are requested not to write on or below the space for Committee's Minute.