

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 31 JUL 1929

Date of writing Report 24-7-29 19 When handed in at Local Office 24-7-29 Port of Glasgow.
 No. in Survey held at Glasgow. Date, First Survey 27. 2. 29 Last Survey 11th July 1929
 Reg. Book. (Number of Visits 27)
 on the
 Built at Leith. By whom built N. Robb. Ltd. Yard No. 141
 Engines made at Glasgow. By whom made Mc. Kie & Baylis Engine No. 1244. when made 1929
 Boilers made at Glasgow. By whom made A. Anderson & Son Ltd. Boiler No. 3046 when made 1929.
 Registered Horse Power Owners Port belonging to
 Nom. Horse Power as per Rule 62 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 Trade for which Vessel is intended Ferry Service Singapore.

ENGINES, &c.—Description of Engines *Diagonal Compound paddle.* Revs. per minute 40
 Dia. of Cylinders 15" - 31" Length of Stroke 40" No. of Cylinders 2 No. of Cranks 2
 Crank shaft, dia. of journals as per Rule 7 1/2" Crank pin dia. 7 1/2" Crank webs Mid. length breadth 9" Thickness parallel to axis 4 5/8"
 as fitted 7 1/2" Mid. length thickness 4 5/8" shrunk Thickness around eye-hole 3 3/4"
 Paddle
 Intermediate Shafts, diameter as per Rule as app. Thrust shaft, diameter at collars as per Rule
 as fitted 7 1/4" - 8" as fitted
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule Is the tube screw shaft fitted with a continuous liner
 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 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 Length of Bearing in Stern Bush next to and supporting propeller
 Propeller, dia. 10'-4" Pitch No. of Blades Material whether Moveable Total Developed Surface sq. feet
 Feed Pumps worked from the Main Engines, No. 1 Diameter 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work
 Bilge Pumps worked from the Main Engines, No. 1 Diameter 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work
 Feed Pumps No. and size How driven Pumps connected to the Main Bilge Line No. and size 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 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 920 sq ft ✓
 Is Forced Draft fitted No. and Description of Boilers Two Loco Type Working Pressure 150 lb. ✓
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? to Glasgow Report No. 49073 & 49074
 IS A DONKEY BOILER FITTED? If so, is a report now forwarded? ✓

PLANS. Are approved plans forwarded herewith for Shafting 4-2-29 Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:— Two conn. rods crosshead bolts & nuts, 2 bottom end
 bolts & nuts, 2 main bearing bolts & nuts, set of coupling bolts & nuts, one set
 each feed & bilge pump bushes, assorted bolts & nuts, then of various sizes.

The foregoing is a correct description,

McKie & Baylis Ltd.
A. Anderson & Son Ltd.

Manufacturer.



2141

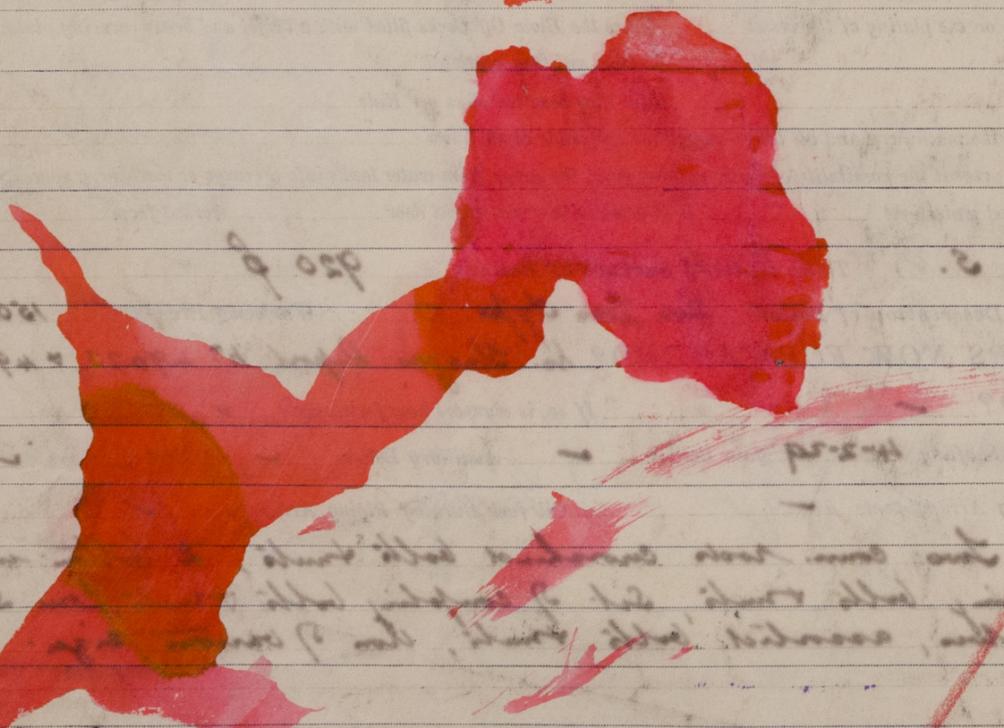
During progress of work in shops -- 1929 Feb 27 Mar 1 7 15 22 27 Apr 5 10 18 25 30 May 3 7 10 21 22 30 Jun 3 6 10 13 19 25 27
 July 1 8 11
 Dates of Survey while building: During erection on board vessel ---
 Total No. of visits 141 27

Dates of Examination of principal parts—Cylinders 10-6-29 Slides 10/6/29 Covers 10/6/29
 Pistons 10/6/29 Piston Rods 30/5/29 Connecting rods 10/6/29
 Crank shaft 6/6/29 Thrust shaft ✓ Paddle Intermediate shafts 13/6/29
 Tube shaft ✓ Screw shaft ✓ Propeller ✓
 Stern tube ✓ 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 242 H Paddle Thrust shaft material Steel Identification Mark P 1658 RWJ
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material ✓ Identification Mark ✓ 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 ✓
 Is this machinery duplicate of a previous case Yes If so, state name of vessel See Glasgow Report No 49300

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery has been constructed under Special Survey in accordance with the Rules. The material and workmanship are good.
 The machinery has been dismantled and despatched to Singapore, to be fitted on board Messrs H. Robb's Ship No 141, and will, in my opinion, be eligible for Record of L.M.C with date when the machinery has been fitted on board the vessel in a satisfactory manner and tested under working conditions

A.G.
27/7/29



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

In London Letter 30-5-29
 The amount of Entry Fee ... £ 13 : 10 0
 Special Less for Boilers 8 : 8 0
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
£5 : 2 0
 Committee's Minute **GLASGOW** 30 JUL 1929 *IRA*

When applied for,
 To be collected
 C. Leith
 When received,
14.8.29

Robert Rae
 Engineer Surveyor to Lloyd's Register of Shipping.

TUE. 18 MAR 1930
 See Inv. Rpt. 4654
 Lloyd's Register Foundation

Assigned Deferred.