

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 12/2/30 When handed in at Local Office 12/2/30 Port of Singapore Received at London Office 10 MAR 1930
 No. in Survey held at Singapore Date, First Survey Aug 27-29 Last Survey Jan 4 1930
 Reg. Book. on the Steel Side Paddle Train Ferry J. J. 10. (Number of Visits 13)
 Built at Leith By whom built H. Robb Ltd Yard No. 140 When built 1929
 Engines made at Glasgow By whom made Mc Kie & Baxter Engine No. 1243 when made 1929
 Boilers made at " By whom made A. Anderson & Sons Ltd Boiler No. 3044 when made 1929
 Registered Horse Power — Owners Sir John Jackson (Sng) Ltd Port belonging to Singapore
 Nom. Horse Power as per Rule 62 Is Refrigerating Machinery fitted for cargo purposes — Is Electric Light fitted —

ENGINES, &c.—Description of Engines Diagonal Compound Paddle
 Dia. of Cylinders Length of Stroke Revs. per minute No. of Cylinders No. of Cranks
 Dia. of Crank shaft journals as per rule Dia. of Crank pin as fitted Crank webs Mid. length breadth shrink Thickness parallel to axis as fitted
 Diameter of Thrust shaft under collars as per rule Diameter of Tunnel shaft as per rule Diameter of Screw shaft as per rule Is the Screw shaft as fitted
 fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made watertight in the propeller boss
 If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with 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 appliance fitted at the after end of the shaft to permit of it being efficiently lubricated
 Length of Stern Bush Diameter of Propeller Paddle
 Pitch of Propeller No. of Blades State whether Moveable Total Surface square feet.
 No. of Feed Pumps fitted to the Main Engines one Diameter of ditto 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work
 No. of Bilge Pumps fitted to the Main Engines one Diameter of ditto 2 1/2" Stroke 10 1/2" Can one be overhauled while the other is at work
 Total number and size of power driven Feed and Bilge Auxiliary Pumps one 4 1/2" x 2 3/4" x 4" Dawson & Downie
 No. and size of Pumps connected to the Main Bilge Line Main bilge & above pump
 No. and size of Ballast Pumps No. and size of Lubricating Oil Pumps, including Spare Pump
 Are two independent means arranged for circulating water through the Oil Cooler No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room Three 2" dia and in Holds, &c. Wrench room (for raft)
one 2" dia / Hold - Two 2" dia - Accommodation Two 2" dia.
 No. and size of Main Water Circulating Pump Bilge Suctions one 3 1/2" dia No. and size of Donkey Pump Direct Suctions one 2 1/2" dia
 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 all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks both
 Are they sized sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line above
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
 What Pipes are carried through the bunkers Bilge How are they protected wood casings
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 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 Yes Is the Screw 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
 Is Forced Draft fitted No No. and Description of Boilers Two Loco Marine Working Pressure 150 lbs sq.
IS A REPORT ON MAIN BOILERS NOW FORWARDED? 2 loco B.
IS A DONKEY BOILER FITTED? If so, is a report now forwarded?
PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 General Pumping Arrangements Fuel Burning Piping Arrangements
SPARE GEAR. State the articles supplied:— See Glasgow report 49300.

The foregoing is a correct description

Manufacturer.



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Lloyd's Register Foundation

W1287-0243

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

During progress of work in shops ---
 Dates of Survey while building
 During erection on board vessel ---
 Total No. of visits

Aug 9-14-23 - Sep 4-11-20-25 - Oct 4-15-22-24 - Nov 1-7

13

Dates of Examination of principal parts - Cylinders
 Slides
 Covers ✓ Pistons
 Connecting rods ✓ Crank shaft
 Tunnel shafts ✓ Screw shaft
 Stern tube ✓ Engine and boiler seatings Sept 25th Engines holding down bolts Sept 25th
 Completion of pumping arrangements Sept 25th Boilers fixed Sept 4th Engines tried under steam Nov 1st
 Completion of fitting sea connections done Stern tube ✓ Screw shaft and propeller
 Main boiler safety valves adjusted Nov 1st Thickness of adjusting washers P/A - 5/4" P/A - 5/4"
 Material of Crank shaft ✓ Identification Mark on Do. ✓
 Material of Thrust shaft ✓ Identification Mark on Do. ✓
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓
 Material of Screw shafts ✓ Identification Marks on Do. ✓
 Material of Steam Pipes S.D. Luffe Test pressure 300 lbs. Date of Test Oct 15th
 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 carrying and burning oil fuel been complied with ✓
 Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The Boilers, Main & Aux Machinery with their pipes & connections have been erected in this vessel in accordance with the approved plans & Secretary's letter June 19th 1929. The main & auxiliary machinery tested under working conditions & found satisfactory. Safety valves adjusted under steam.

The machinery of this vessel is now eligible in my opinion to be classed in the Register Book with record of + L.M.C. 1, 30.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 1, 30.

J. H. Matthews
 14/3/30

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

The amount of Entry Fee ... £	: 14 :	When applied for,
Special ...	: \$ 116 :	8/2/19.30
Donkey Boiler Fee ... £	: 04 :	When received,
Travelling Expenses (if any) \$ 27 :		19

Committee's Minute TUE. 18 MAR 1930
 Assigned + L.M.C. 1, 30



CERTIFICATE WRITTEN.