

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 27th July 1927

Writing Report 21st July 1927 When handed in at Local Office 21-7-1927 Port of Glasgow
 Survey held at Paisley Date, First Survey 28.3.27 Last Survey 19th July 1927
 on the Egineio 490 MEGOHM (Number of Visits 18)
 at Paisley By whom built Fleming & Ferguson Ltd Yard No. 490 Tons Gross 92
 es made at Paisley By whom made Fleming & Ferguson Ltd Engine No. 490 when built 1924
 s made at Paisley By whom made Fleming & Ferguson Ltd Boiler No. 490 when made 1927
 ired Horse Power 40 Owners (S-2-51) Port belonging to (S-2-51)
 Horse Power as per Rule 39.6 40 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 for which Vessel is intended (S-2-51)

ENGINES, &c.—Description of Engines
 of Cylinders 10 Length of Stroke 12" No. of Cylinders 2 Revs. per minute 200
 shaft, dia. of journals 3.99 Crank pin dia. 4 1/2" Crank webs 8 5/8" Thickness parallel to axis 3"
 as fitted 4 1/2" Mid. length thickness 3" Thickness around eye-hole 1 5/16"
 Intermediate Shafts, diameter 3.8" Thrust shaft, diameter at collars 4 1/2"
 as fitted 4" Is the tube shaft fitted with a continuous liner no
 shafts, diameter 4 1/4" as fitted 4 1/2"
 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 boss
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of 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
 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 stern tube shaft
 Length of Bearing in Stern Bush next to and supporting propeller 20"
 dia. 3'-9" Pitch 6'-0" No. of Blades 4 Material Cast Iron whether Moveable no Total Developed Surface 4 sq. feet
 pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
 pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
 No. and size One 4 1/2" x 10" Independent Pumps connected to the Main Bilge Line No. and size One Duplex 3 1/2" x 6"
 How driven steam driven How driven Steam driven
 Pumps, No. and size 2 Duplex 5" x 3 1/2" x 6" Lubricating Oil Pumps, including Spare Pump, No. and size no
 independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Pumps;—In Engine and Boiler Room Two 2" in Engine room & 2-2" in stokehold.
 &c. Fore hold—Two 2"

Water Circulating Pump Direct Bilge Suctions, No. and size One 3" **Independent Power Pump Direct Suctions to the Engine Room Bilges,** size One 2"
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes
 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
Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks Rock
 placed 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 Above
 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
 pass through the bunkers no How are they protected
 pass through the deep tanks Have they been tested as per Rule
 Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 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 to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

OILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 1006 sq ft
 Draft fitted No. and Description of Boilers One Cylindrical S.E. Return tube Working Pressure 140 lbs.

REPORT ON MAIN BOILERS NOW FORWARDED?
DONKEY BOILER FITTED? no If so, is a report now forwarded?
 Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 General Pumping Arrangements Oil fuel Burning Piping Arrangements

EXCESSIVE GEAR. State the articles supplied:—
connecting rod bolts & nuts, 2 piston rod bolts & nuts, 2 connecting rod bottom end bolts & nuts
in bearing bolts, One set of coupling bolts, 1 set of feed & bilge valves, 1 set
distal ring, A quantity of bolts & nuts & assorted iron of various sizes.

The foregoing is a correct description,
Fleming & Ferguson, Ltd.
A. Fleming Director
 Manufacturer.
 TUES. 3 APR 1928
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 W/243-0063

READ NOT TO WRITE ACROSS THE MARGIN.

1927 Mar 28-30 Apr 7-19-27 May 6-10-25 June 2-7-13-20-24 July 4-8-11-13-19.

During progress of work in shops - - -

Dates of Survey while building

Total No. of visits 18

Dates of Examination of principal parts—Cylinders 20-6-27 Slides 20-6-27 Covers 13-6-27

Pistons 13-6-27 Piston Rods 13-6-27 Connecting rods 7-6-27

Crank shaft 25/5/24 Thrust shaft 13-4-24 Intermediate shafts ✓

Tube shaft ✓ Screw shaft 13-4-24 Propeller ✓

Stern tube ✓ Engine and boiler seatings. Engines holding down bolts ✓

Completion of fitting sea connections ✓ not fitted here.

Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam 19-7-27.

Main boiler safety valves adjusted ✓ Thickness of adjusting washers -

Crank shaft material Steel Identification Mark LLOYDS 1839 AF J.F.N. 13/7/27 Thrust shaft material Steel Identification Mark LLOYDS 1839 AF J.F.N. 13/7/27

Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓

Screw shaft, material Steel Identification Mark LLOYDS 1839 AF J.F.N. 13/7/27 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 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.)

This engine has been built under Special Survey in accordance with the Rules of this Society. The materials and workmanship are good.

This engine is intended for S/S. # 90, built by Messrs Fleming & Ferguson Ltd for Messrs Burmah Oil Co and is being shipped to Rangoon where the vessel is now being erected.

All the pumping arrangements have been removed and will be installed at Rangoon.

The amount of Entry Fee	£ 22 : 0 :	When applied for,
Special	£ 12 : 0 :	22-7-27
Donkey Boiler Fee	£ :	When received,
Travelling Expenses (if any)	£ :	27-7-27

J. Nicholas
Engineer Surveyor to Lloyd's Register of Shipping.

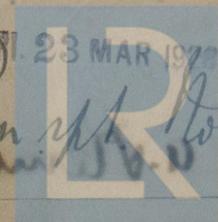
Committee's Minute GLASGOW 26 JUL 1927

Assigned Deferred.

A.B.
21/7/27.

GLASGOW 27

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



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