

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 27 JUL 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 *Eineho* 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
 ered Horse Power Owners Port belonging to
 Horse Power as per Rule 39.6 40. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 for which Vessel is intended

NES, &c.—Description of Engines

Compound Steam Revs. per minute 200
 f Cylinders 10" x 21" Length of Stroke 12" No. of Cylinders 2 No. of Cranks 2
 shaft, dia. of journals as per Rule 3.99 Crank pin dia. 4 1/2" Crank webs Mid. length breadth 8 5/8" Thickness parallel to axis 3"
 as fitted 4 1/2" Mid. length thickness 3" shrunk Thickness around eye-hole 1 5/16"
 Intermediate Shafts, diameter as per Rule 3.8" Thrust shaft, diameter at collars as per Rule 4 1/2"
 as fitted 4" Is the { tube } shaft fitted with a continuous liner { no }
 shafts, diameter as per Rule 4 1/4" as fitted 4 1/2" Is the { screw } shaft fitted with a continuous liner { no }
 as fitted 4 1/2" Screw Shaft, diameter as per Rule 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
 as fitted 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

the tube shaft Length of Bearing in Stern Bush next to and supporting propeller 20"
 er, 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 No. and size One Duplex 3 1/2" x 6"
 How driven steam driven Main Bilge Line 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
 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

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
 a Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks

Are they fitted with Valves or Cocks Are the Overboard Discharges above or below the deep water line Above
 Are the Blow Off Cocks fitted with a spigot and brass covering plate

Are the Blow Off Cocks fitted with a spigot and brass covering plate How are they protected
 Have they been tested as per Rule

Are they tested as per Rule Are the Blow Off Cocks fitted with a spigot and brass covering plate
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The foregoing is a correct description,

Fleming & Ferguson, Ltd.
 A. Fleming
 Director

Manufacturer.

TUES. 3 APR 1928



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Lloyd's Register
 Foundation

W1240-0063

DO NOT WRITE IN 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 - -
During erection on board vessel - -
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 *25/5/27* Thrust shaft *13-4-27* Intermediate shafts *✓*
Tube shaft *✓* Screw shaft *13-4-27* 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 *J.F.N. 13/7/27* Thrust shaft material *Steel 3/7/27* Identification Mark *J.F.N. 13/7/27*
Intermediate shafts, material *✓* Identification Marks *✓* Tube shaft, material *✓* Identification Mark *✓*
Screw shaft, material *Steel* Identification Mark *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 J. Laming & 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 : 0
Special ... £ *12* : 0 : 0
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, *22-7-27*
When received, *27-7-27*

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

Committee's Minute **GLASGOW 26 JUL 1927**

Assigned *Deferred.*