

IVED

Rpt. 4.

No. 464.

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

115 JUL 1949

Date of writing Report 29.4.49.19 When handed in at Local Office 19 Port of NOTTINGHAM.  
 No. in Survey held at Nottingham. Date, First Survey 20.10.48. Last Survey 26.4.49.  
 Reg. Book (Number of Visits)  
 on the Messrs. Harland & Wolff Ltd. 1397G. Tonnage 131  
 Built at By whom built under O/N. 1397G/E.W.2. Job No. Yard No. When built  
 Engines made at Nottingham. By whom made E. Reader & Sons Ltd. Engine No. 24959 When made 1949.  
 Boilers made at By whom made Boiler No. When made  
 Registered Horse Power 47 Owners Port belonging to  
 Nom. Horse Power as per Rule 2.1 M.N. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted  
 Trade for which vessel is intended

GINES, &c.—Description of Engines Type S.F. 9½. Vertical enclosed forced lubricated Revs. per minute 500  
 Dia. of Cylinders 9½" Length of Stroke 5½" No. of Cylinders One No. of Cranks One  
 Crank shaft, dia. of journals as per Rule App. Mid. length breadth 5½" Thickness parallel to axis  
 as fitted 3.1/8" Crank pin dia. 3½" Crank webs shrunk Thickness around eye-hole  
 Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule  
 as fitted Screw Shaft, diameter as per Rule Is the { tube } shaft fitted with a continuous liner {  
 as fitted Is the { screw }  
 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 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  
 at If so, state type Length of Bearing in Stern Bush next to and supporting propeller  
 Propeller, dia. Pitch No. of Blades Material whether Moveable Total Developed Surface sq. feet  
 Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work  
 Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work  
 No. and size Pumps connected to the { No. and size  
 How driven Main Bilge Line How driven  
 Lubricating Oil Pumps, including Spare Pump, No. and size  
 two independent means arranged for circulating water through the Oil Cooler Suctions, connected both to Main Bilge Pumps and Auxiliary  
 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 and/or Boiler Room Bilges.  
 and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes  
 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  
 all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks  
 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  
 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  
 hat Pipes pass through the bunkers How are they protected  
 hat pipes pass through the deep tanks Have they been tested as per Rule  
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times  
 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  
 apartment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

IN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers  
 Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters  
 and Description of Boilers Working Pressure

A REPORT ON MAIN BOILERS NOW FORWARDED?  
 A DONKEY BOILER FITTED? If so, is a report now forwarded?

the donkey boiler be used for other than domestic purposes  
 Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers  
 (If not state date of approval)

General Pumping Arrangements Oil fuel Burning Piping Arrangements

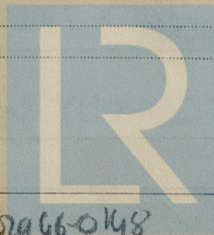
## SPARE GEAR.

the spare gear required by the Rules been supplied The Rules do not apply to this size of engine.  
 the principal additional spare gear supplied No spares are supplied with this engine.

The foregoing is a correct description.

E. READER & SONS, LIMITED

Manufacturer.



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002938-002946-048



Dates  
of Survey  
while  
building

During progress of  
work in shops - - { 20.10.48. 26.3.49. 26.4.49.

During erection on  
board vessel - - - {

Total No. of visits 3

Dates of Examination of principal parts—Cylinders 26.3.49. Slides - Covers 26.3.49.  
Pistons 26.3.49. Piston Rods 26.3.49. Connecting rods 26.3.49.  
Crank shaft 26.3.49. Thrust shaft Intermediate shafts  
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

20.10.48.

Crank shaft material O.H.S.

Identification Mark No. 884.T.D.S.

Identification Mark

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

If so, have the requirements of the Rules been complied with

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo

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 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 Regulations of the Society. The workmanship and materials are good.  
On completion the engine was run in the shops under light load conditions and found satisfactory.

The engine has been despatched to Glasgow.

This engine has been especially installed in Ark 1/2 No 13978 coupled to auxiliary compressor unit  
manufactured by Harland & Wolff Ltd Glasgow. Tried under working conditions Satisfactorily.

H. Chis. juniper.  
Glasgow.  
18/12/49

Certificate to be sent to

The amount of Entry Fee ... £ 4 : 0 : } When applied for,  
Special ... £ : : } 22/7/1949  
Donkey Boiler Fee ... £ : : } When received,  
Travelling Expenses (if any) £ : : } 19

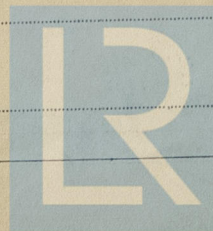
Date GLASGOW - 7 DEC 1949

Committee's  
Minute

SEE ACCOMPANYING MACHINERY REPORT.

H. Chis. juniper.

Engineer Surveyor to Lloyd's Register of Shipping



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