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No. 660

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office
NOTTINGHAM. 11 DEC 1949

Date of writing Report 9.11.49 When handed in at Local Office Port of Nottingham.
 No. in Survey held at Nottingham. Date, First Survey 10.8.49. Last Survey 22.10.49.
 Reg. Book on the Messrs. Smith's Dock Co. Ltd., Tons Gross
 Built at -By whom built under C/No. 24686 E.W. 1198 Yard No. unknown When built
 Engines made at Nottingham By whom made E. Reader & Sons Ltd. Engine No. 25058 When made 1949
 Boilers made at By whom made Boiler No. When made
 Registered Horse Power 22 Owners. Port belonging to
 Nom. Horse Power as per Rule 0.5 M.N. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 Trade for which vessel is intended

ENGINES, &c.—Description of Engines Type S.F.7. Vertical enclosed forced lubricated Revs. per minute 544
 Dia. of Cylinders 5" Length of Stroke 4" No. of Cylinders One No. of Cranks One
 Crank shaft, dia. of journals as per Rule App. as fitted 2.3/8" Crank pin dia. 3" Mid-length breadth 4.7/8" Thickness parallel to axis
 Crank webs Mid-length thickness 1.7/16" Thickness around eye-hole
 Intermediate Shafts, diameter as per Rule as fitted Thrust shaft, diameter at collar as per Rule as fitted
 Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted To the tube screw shaft fitted with a continuous liner
 Bronze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule as fitted Is the after end of the liners made watertight in the 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 Bland 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 Movable Total Developed Surface sq. feet
 Feed Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
 Bilge Pumps worked from the Main Engines, No. Diameter Stroke 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 both to Main Bilge Pumps and Auxiliary Bilge Pumps:—In Engine and Boiler Room
 In Pump 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, 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) Total Heating Surface of Boilers
 Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters
 No. and Description of Boilers Working Pressure
IS A REPORT ON MAIN BOILERS NOW FORWARDED?
IS A DONKEY BOILER FITTED? If so, is a report now forwarded?
 Can the donkey boiler be used for other than domestic purposes
PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

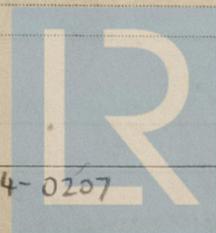
Has the spare gear required by the Rules been supplied. The Rules do not apply to this size of engine.
 State the principal additional spare gear supplied. Spares.
 One Set - Main bearings with bolts and nuts.
 One pair - Crankpin brasses " " " "
 One " - Crosshead " " " "
 One - Eccentric strap " " " "
 One - M.S. Crosshead.
 One - Piston rod and nuts.
 One - Valve rod complete.
 One - Steel piston with L & C rings.

The foregoing is a correct description.

E. READER & SONS, LIMITED

Manufacturer.

012358-012364-0207



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10.8.49., 3.10.49., 22.10.49.

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

Dates of Examination of principal parts - Cylinders 3.10.49. Slides - Covers 3.10.49.
Pistons 3.10.49. Piston Rods 3.10.49. Connecting rods 3.10.49.
Crank shaft 3.10.49. 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
Crank shaft material O.H.S. Identification Mark 276. W.H. Thrust shaft material 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
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
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 British Corporation Register of Shipping and Aircraft; the materials and workmanship being good.

On completion the engine was run in the shops under light load conditions and found satisfactory.

The engine has been despatched to South Bank.

The amount of Entry Fee ... £ 4 : 0 :
Special ... £ : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 30.11.49.
When received, 19.

H Thorburn

Engineer Surveyor to Lloyd's Register of Shipping.

Date FRI, 23 JUN 1950

Committee's Minute See F.B. weekly rpt.



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Boiler D. RECEIVED Rpt. of ... 11 JAN 1950 IN DO No. in Su Reg. Bk. on Built at Engines made Boilers made Nominal Horse WATER T Date of Appr of Boilers 2- No. of Certific Is forced draug No. and type of each boiler are adjusted the donkey boiler Width and Len Thickness of p or flanged for Class I ves Diameter of riv long. joint :-P Percentage str Thickness of p in each boiler welded or flang for Class I ves Diameter of riv Percentage str Percentage str Thickness of p Headers or S Tubes:-Diam Joint to Shell strength firm Pitch of rivet Crown or EN SUPERH Thickness or flanged for Class I ve Diameter of r long. joint :- drum shell in Radius or ho Tested by Hy can be shut of valves Spare Ge Dates of Survey while building Is this boiler GENERAL under S for a m they m Survey Travellin Commit Assigned