

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

2 JUN 1949

Date of writing Report 25th May 1949. When handed in at Local Office 30/5/49 1949 Port of Newcastle-on-Tyne
 No. in Survey held at BLYTH Date, First Survey 11/4/49 Last Survey 6/5/49 1949
 Reg. Book 19540 on the S.S. "WATSON FERRIS" (Number of Visits 4)
 Built at Superior, Ill. By whom built Walter Butler Shipbuilding, Inc. Yard No. Tons { Gross 1791
 Engines made at Menominee, Mich. By whom made Pascett & Co Engine No. Net 1041
 Boilers made at By whom made Boiler No. When built 1943
 Registered Horse Power Owners Ministry of Transport When made 1943
 Nom. Horse Power as per Rule 330 MW. Port belonging to London
 Trade for which vessel is intended Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines. Revs. per minute
 Dia. of Cylinders Length of Stroke No. of Cylinders No. of Cranks
 Crank shaft, dia. of journals as per Rule Crank pin dia. Mid. length breadth Thickness parallel to axis
 as fitted Crank webs shrunk
 as per Rule Mid. length thickness Thickness around eye-hole
 Intermediate Shafts, diameter Thrust shaft, diameter at collars as per Rule
 as fitted as fitted
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 11.04
 as fitted as fitted 11 7/16" Is the screw shaft fitted with a continuous liner
 Bronze Liners, thickness in way of bushes as per Rule .635 as per Rule .446
 as fitted .452 Thickness between bushes as fitted .443 Is the after end of the liner 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 one length
 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 48 inches
 Propeller, dia. 13.5 ft Pitch 16.875 ft No. of Blades 4 Material Bronze whether Moveable no 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 Pumps connected to the { No. and size
 { How driven Main Bilge Line { 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
 State the principal additional spare gear supplied

The foregoing is a correct description.

Manufacturer



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W1039-0060

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

Slides

Covers

Pistons

Piston Rods

Connecting rods

Crank shaft

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

Identification Mark

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.

For the information of the Committee

Certificate to be sent to

(The Surveyor requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee ... £

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

19

When received,

19

Date

FRI 1 JUL 1949

Committee's
Minute

See Rpt 9

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



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