

APR 29 1937

No. 32064

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 10 When handed in at Local Office 16 APR 1937 Port of SUNDERLAND

No. in Survey held at SUNDERLAND Date, First Survey 28 Jan 36 Last Survey 13 Apr 1937
 Reg. Book. on the FULHAM III (Number of Visits 57)

Gross Tons Net Tons

Built at Sunderland By whom built Burntisland S.B. Co. Yard No. 195 When built 1937

Engines made at Sunderland By whom made N.E. Marine Eng. Co. Ltd Engine No. 2831 When made 1937

Boilers made at Sunderland By whom made N.E. Marine Eng. Co. Ltd Boiler No. 2831 When made 1937

Registered Horse Power Owners Fulham Borough Council Port belonging to

Nom. Horse Power as per Rule 185 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

Trade for which Vessel is intended coal

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 82

Dia. of Cylinders 16 1/2", 27 1/2", 46" Length of Stroke 33" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule appd. Crank pin dia. 9 1/2" Crank webs Mid. length breadth 5 1/2" Thickness parallel to axis 5 1/2" Mid. length thickness 5 1/2" Thickness around eye-hole 5" journal 4 1/2" pin

Intermediate Shafts, diameter as per Rule as fitted Thrust shaft, diameter at collars as per Rule appd. as fitted 9 7/8"

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule appd. as fitted 10 3/4" Is the {tube screw} shaft fitted with a continuous liner? no

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 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?

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 shelf? If so, state type Cedarwall's adjustable Length of Bearing in Stern Bush next to and supporting propeller 3' 9"

Propeller, dia. 13' 6" Pitch Variable No. of Blades 4 Material Bronze whether Moveable not Total Developed Surface 58 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 1' 4 1/2" Can one be overhauled while the other is at work yes

Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 1' 4 1/2" Can one be overhauled while the other is at work yes

Feed Pumps { No. and size one, 4" x 2 3/4" x 5" How driven one, 6" x 4" x 8" Steam Pumps connected to the Main Bilge Line { No. and size Two, 9" x 10" x 10" How driven Steam

Ballast Pumps, No. and size Two, 9" x 10" x 10" Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler? Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room one, 2 1/2" dia Engine Room, one, 2 1/2" dia Boiler Room

In Pump Room In Holds, &c. one, 3 1/2" dia. No. 1; Two, 3" No. 2.

Main Water Circulating Pump Direct Bilge Suctions, No. and size one, 7" dia. Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size one, 4" dia.

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes? yes

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? yes

Are all Sea Connections fitted direct on the skin of the ship? yes (see appd. plan) they fitted with Valves or Cocks? yes

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates? yes Are the Overboard Discharges above or below the deep water line? above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel? yes Are the Blow Off Cocks fitted with a spigot and brass covering plate? yes

What Pipes pass through the bunkers? none How are they protected? Have they been tested as per Rule?

What pipes pass through the deep tanks? none 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? yes

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? yes 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 2750 sq. ft.

Is Forced Draft fitted? yes No. and Description of Boilers one, cylindrical multibore Working Pressure 200 lbs.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes

IS A DONKEY BOILER FITTED? yes If so, is a report now forwarded? yes

Is the donkey boiler intended to be used for domestic purposes only? no

PLANS. Are approved plans forwarded herewith for Shafting 15/6/35 Main Boilers 1/8/35 Auxiliary Boilers Donkey Boilers

(If not state date of approval)

Superheaters General Pumping Arrangements Lth burners Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied? yes

State the principal additional spare gear supplied one cast iron propeller to serve for contract nos 2829, 2830 & 2831.

one set air pump valves. 12 plain boiler tubes. 24 condenser tubes. one set feed donkey valves.

one set ballast donkey valves. one pair bottom ends. 2 valve lids for main and auxiliary valves.

The foregoing is a correct description
 FOR THE NORTH EASTERN MARINE ENGINEERING CO. LTD

Archd. J. Berry.

MANAGER

Manufacturer.



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002620-002630-0091

Dates of Survey while building
During progress of work in shops -- 1936 Jan. 28, 29, Feb. 5, 28, March 2, Sep. 22, 23, 24, 29, Oct. 2, 13, 15, 29, Nov. 27, 30.
Dec. 27, 9, 10, 14, 17, 18, 29, 30, 31. 1937 Jan. 4, 5, 8, 11, 14, 15, 18, 21, 25, 27, 29, Feb. 1, 2, 3, 4, 8, 12, 14, 17, 18, 19, 25, 26, March 1, 12, 17, 24, 25, 31, April 2, 6, 13
During erection on board vessel ---
Total No. of visits 57

Dates of Examination of principal parts—Cylinders 8/11/37 Slides 4/2/37 Covers 12/2/37
Pistons 5/1/37 Piston Rods 1/2/37 Connecting rods 1/2/37
Crank shaft 15/1/37 Thrust shaft 15/1/37 Intermediate shafts ✓
Tube shaft ✓ Screw shaft 26/2/37 Propeller 26/2/37
Stern tube 24 26/2/37 Engine and boiler seatings Engines holding down bolts 2/4/37
Completion of fitting sea connections plans in Lark Surveyor's Report
Completion of pumping arrangements 6/4/37 Boilers fixed 31/3/37 Engines tried under steam 6/4/37
Main boiler safety valves adjusted 6/4/37 Thickness of adjusting washers 7/16" Port, 13/32" Starboard
Crank shaft material steel Identification Mark 8306 Thrust shaft material steel Identification Mark 8609
Intermediate shafts, material — Identification Marks — Tube shaft, material — Identification Mark —
Screw shaft, material steel Identification Mark 8609 Steam Pipes, material steel Test pressure 600 lbs Date of Test 24/3/37
Is an installation fitted for burning oil fuel no 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 no 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 yes If so, state name of vessel "FULHAM II" & "FULHAM"
General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been constructed under Special Survey in accordance with the approved plans, Secretary's letters and the requirements of the Rules.
The machinery has been efficiently fitted on board and tried under working conditions with satisfactory results and is, in my opinion, eligible for the

NOTATION + L.M.C. 4.37. O.G.

L.R. Home

The amount of Entry Fee ... £ 3 : : When applied for,
Special ... £ 46: 5 : 16 APR 1937
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 20.4.37 21/4

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

+ L.M.C. 4.37
22, 7/09

FRI 30 APR 1937



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