

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 13 SEP 1924

Date of writing Report

19

When handed in at Local Office

13/8/24 Port of

NEWCASTLE-ON-TYNE

No. in Survey held at

Newcastle-on-Tyne

Date, First Survey 30/4/24

Last Survey 13/8/24

1924

Reg. Book.

89606 on the

steel sc.

LEITCHWORTH

(Number of Visits 21.)

Tons Gross 1025

Net 717

When built 1924

Built at Newcastle

By whom built Wood Skinner &amp; Co. Ltd.

Yard No. 235

Engines made at Newcastle

By whom made North Eastern Marine Eng. Co. Ltd.

Engine No. 2576

when made 1924

Boilers made at Newcastle

By whom made North Eastern Marine Eng. Co. Ltd.

Boiler No. 2576

when made 1924

Registered Horse Power

Owners

Port belonging to Newcastle

Nom. Horse Power as per Rule 179

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

## ENGINES, &amp;c.—Description of Engines

Inverted Triple Expansion

Dia. of Cylinders 18"-20"-49" Length of Stroke 33" Revs. per minute No. of Cylinders 3 No. of Cranks 3

Dia. of Crank shaft journals as per rule 9.45" as fitted 9.52" Dia. of Crank pin 9.58" Crank webs Mid. length breadth 16" Mid. length thickness 5 7/8" Thickness parallel to axis 5 7/8" Thickness around eye-hole 4 1/2"

Diameter of Thrust shaft under collars as per rule 9.45" as fitted 9.52" Diameter of Tunnel shaft as per rule 9.01" as fitted none Diameter of Screw shaft as per rule 9.9" as fitted 10 3/8" Is the Screw shaft

fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made watertight in the propeller boss Yes

If the liner is in more than one length are the joints burned Yes 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 Yes

If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved appliance fitted at the after end of the shaft to permit

of it being efficiently lubricated No Length of Stern Bush 42" Diameter of Propeller 13'3"

Pitch of Propeller 13'3" No. of Blades 4 State whether Moveable No Total Surface 55 square feet.

No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 16 1/2" Can one be overhauled while the other is at work Yes

No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 16 1/2" Can one be overhauled while the other is at work Yes

Total number and size of power driven Feed and Bilge Auxiliary Pumps 3- 2 feed 6"x4"x6" - Ballast 8"x10"x10"

No. and size of Pumps connected to the Main Bilge Line Two Bilge Rams &amp; Ballast Pump

No. and size of Ballast Pumps One 8"x10"x10" No. and size of Lubricating Oil Pumps, including Spare Pump None

Are two independent means arranged for circulating water through the Oil Cooler Yes No. and size of suction connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room One 3" one 2 1/2" and in Holds, &amp;c. No. 1 Hold 2- 2 1/2" No. 2 Hold 2- 2 1/2"

No. and size of Main Water Circulating Pump Bilge Suctions One 5" No. and size of Donkey Pump Direct Suctions

to the Engine Room Bilges One 3 1/4" 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 connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line

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 are carried through the bunkers Forward Bilge Suctions How are they protected Wood Cased

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 Screw Shaft Tunnel watertight None Is it fitted with a watertight door Yes worked from Yes

## MAIN BOILERS, &amp;c.—(Letter for record S)

Total Heating Surface of Boilers 3150 sq

Forced Draft fitted No

No. and Description of Boilers 2 Single-Ended Cyl. Multi

Working Pressure 180 lbs/sq

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? No

If so, is a report now forwarded? Yes

PLANS. Are approved plans forwarded herewith for Shafting Yes

Main Boilers Yes

Auxiliary Boilers Yes

Donkey Boilers Yes

General Pumping Arrangements Yes

Oil fuel Burning Piping Arrangements Yes

## SPARE GEAR.

State the articles supplied:—

One Cast Iron propeller, 2 Top End Bolts &amp; Nuts, 2 Bottom End Bolts &amp; Nuts, 2 Main Bearing Bolts &amp; Nuts, 6 Coupling Bolts Nuts, 2 Feed Pump Valves, 2 Bilge Pump Valves, Assorted Bolts Nuts &amp; Iron, 6 tubes &amp; 25 Condenser ferrules, One Set Air pump valves, 2 Ballast Donkey valves, 2 main feed check valves, 2 Donkey check valves, 2 Safety Valves Springs, 2 Escape Valve Springs, One eccentric sheave &amp; shaft Complete, 2 piston studs &amp; Nuts, One spare A.P. piston valve.

The foregoing is a correct description

THE NORTH EASTERN MARINE ENGINEERING CO., LTD.

Manufacturer.

Secretary.



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