

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 6th August 1929 When handed in at Local Office 6 AUG 1929 Port of Sunderland
 No. in Survey held at Sunderland Date, First Survey Mar 6 Last Survey Aug 3 19 29
 Reg. Book. 42213 on the S.S. "SARASTONE" (Number of Visits 32)
 Built at Burntisland By whom built Wess. The Burntisland Shipbuilding Co. Ltd. Yard No. 154 Tons 1929
 Engines made at Sunderland By whom made Wess. The North Eastern Marine Eng. Co. Ltd. Engine No. 2698 when made 1929
 Boilers made at Sunderland By whom made Wess. The North Eastern Marine Eng. Co. Ltd. Boiler No. 2698 when made 1929
 Registered Horse Power 224 Owners Stone & Rolfe, Ltd. Port belonging to Hambley
 Nom. Horse Power as per Rule 224 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted Yes
 Trade for which Vessel is intended General Cargo

Engines, &c.—Description of Engines Triple Expansion - Single Screw. Revs. per minute 74
 Dia. of Cylinders 20", 33", 54" Length of Stroke 36" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals 10 3/8" as per Rule 10 3/8" as fitted 10 3/8" Crank pin dia. 10 5/8" Crank webs shrunk Thickness parallel to axis 6 1/2"
 Intermediate Shafts, diameter 9 1/8" as per Rule 9 1/8" as fitted 10 3/8" Thrust shaft, diameter at collars 10 3/8" as per Rule 10 3/8" as fitted 10 3/8"
 Tube Shafts, diameter 11 1/8" as per Rule 11 1/8" as fitted 11 1/8" Is the tube shaft fitted with a continuous liner Yes
 Screw Shaft, diameter 11 1/8" as per Rule 11 1/8" as fitted 11 1/8" Is the screw shaft fitted with a continuous liner Yes
 Bronze Liners, thickness in way of bushes 1/16" as per Rule 1/16" as fitted 1/16" Thickness between bushes 1/16" as per Rule 1/16" as fitted 1/16" 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 junctions made by fusion through the whole thickness of the liner 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 Oil Gland or other appliance fitted at the after end of the tube shaft no
 Length of Bearing in Stern Bush next to and supporting propeller 3'-11 1/2"
 Propeller, dia. 15'-6" Pitch 14'-6" No. of Blades 4 Material Cast Iron whether Movable no Total Developed Surface 70 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 21" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 3 1/2" Stroke 21" Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size 1-6"x4"x6" Pumps connected to the Main Bilge Line { No. and size 1-8"x9"x8"
 How driven Steam How driven Steam
 Ballast Pumps, No. and size 1-8"x9"x8" Lubricating Oil Pumps, including Spare Pump, No. and size 1-8"x9"x8"
 Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3 @ 2 1/2" DIAM. 1 @ 2 1/2" DIAM. (TUNNEL WELL)
 In Holds, &c. Fore Hold 2 @ 3 1/4" Dia, aft Hold 2 @ 3" Dia, aft Hold Well 1 @ 3" Dia.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 6" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 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 Sea Connections fitted direct on the skin of the ship Yes Are they fitted with 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 Overboard Discharges above or below the deep water line MAIN - Below OTHERS - 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 Yes
 What pipes pass through the deep tanks Yes Have they been tested as per Rule Yes
 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 Yes Is it fitted with a watertight door Yes worked from top platform

MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 3926 sq. ft.
 Is Forced Draft fitted no No. and Description of Boilers Two - Single Ended Marine Type Working Pressure 180 lbs. □"
 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
 (If not state date of approval)
 Superheaters Yes General Pumping Arrangements Yes (with Ship Report) Oil fuel Burning Piping Arrangements Yes

SPARE GEAR. State the articles supplied:— One - C.I. Propeller; 2 - Bottom End Bolts & nuts; 2 - Top End Bolts & nuts; 2 - Main Bearing Bolts & nuts; 6 - Shaft Coupling Bolts & nuts; 2 - Feed Pump Valves; 2 - Bilge Pump Valves; 20 - Assorted Bolts & nuts; 1/2 cwt. of Iron Plate; 1/2 cwt. of Iron Bar.

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

John Neill
 Manager

Manufacturer.



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W215-0062

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

19.29. Mar. 6, 26. Apr. 4, 5, 22, 24, 26. May 6, 13, 14, 22, 23, 24, 25, 31. June 4, 5, 7, 10, 12, 18. July 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. Aug. 2.

Dates of Examination of principal parts - Cylinders

Pistons

Crank shaft

Tube shaft

Stern tube

Completion of fitting sea connections

Completion of pumping arrangements

Main boiler safety valves adjusted

Crank shaft material

Intermediate shafts, material

Screw shaft, material

Is an installation fitted for burning oil fuel

Have the requirements of the Rules for carrying and burning oil fuel been complied with

Is this machinery duplicate of a previous case

General Remarks

(State quality of workmanship, opinions as to class, &c. The Engines and Boilers have been built under Special Survey and Satisfactorily fitted in the Vessel. The Materials and Workmanship are good. On Completion the Machinery was tried under a full head of Steam with Satisfactory results. The Machinery throughout is now in a good and efficient Condition and eligible in ~~my~~ ^{our} opinion for classification and the notation L.M.C. 8, 29.

It is submitted that this vessel is eligible for THE RECORD.

APR 29 7/8/29

CERTIFICATE WRITTEN

The amount of Entry Fee ... £ 4 : 0 :
Special ... £ 56 : 0 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :

When applied for,

8 AUG 1929

When received,

7.8.29

Alfred C. & A. T. Griffith.
Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute

WED. 7 AUG 1929

Assigned

+ dmb 8.29 CL



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