

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 10 When handed in at Local Office 9 OCT. 1930 Port of SUNDERLAND
 No. in Survey held at SUNDERLAND Date, First Survey 7th Oct Last Survey 7th Oct 1930
 Reg. Book. on the S.S. "GOWER" (Number of Visits 44)
 Built at GOOLE By whom built GOOLE S.B. & R. Co. Ltd. Yard No. 291 When built 1930
 Engines made at SUNDERLAND By whom made N.E. MARINE ENG. Co. Ltd. Engine No. 2753 when made 1930
 Boilers made at SUNDERLAND By whom made N.E. MARINE ENG. Co. Ltd. Boiler No. 2753 when made 1930
 Registered Horse Power _____ Owners J. E. FISHER & Co. Port belonging to SWANSEA
 Nom. Horse Power as per Rule 171 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.
 Trade for which Vessel is intended _____

ENGINES, &c.—Description of Engines Triple Expansion. Revs. per minute 83.5
 Dia. of Cylinders 18" x 30" x 49. Length of Stroke 33" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 9.345 Crank pin dia. 9 1/2" Crank webs Mid. length breadth _____ Thickness parallel to axis 5 15/16"
 as fitted 9 1/2" Mid. length thickness _____ shrunk Thickness around eye-hole 4 3/4"
 Intermediate Shafts, diameter as per Rule 8.9 Thrust shaft, diameter at collars as per Rule 9.345
 as fitted 9 1/4" as fitted 9 1/2"
 Tube Shafts, diameter as per Rule _____ Screw Shaft, diameter as per Rule 10.025
 as fitted _____ as fitted 10 1/4" Is the lube shaft fitted with a continuous liner Yes.
 Bronze Liners, thickness in way of bushes as per Rule 0.602 Thickness between bushes as per Rule 0.45
 as fitted 5/8" as fitted 9/16" 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 _____
 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 shaft _____
 Propeller, dia. 13-6" Pitch 13-3" No. of Blades 4. Material C.I. whether Moveable No. Total Developed Surface 5-7 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 15" 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 15" Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size 1 at 5 1/2" x 3 1/2" x 5" Pumps connected to the { No. and size 1 at 8" x 8" x 8"
 How driven Steam. Main Bilge Line How driven Steam.
 Ballast Pumps, No. and size 1 at 8" x 8" x 8" 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 3 at 2 1/2" 1 at 2 1/2" in dry tank
 In Holds, &c. 2 at 3" Fore Hold 2 at 3 1/2" Aft Hold 1 at 2 1/2" Hold Well 1 at 2 1/2" Trunk Well.

MAIN WATER CIRCULATING PUMP DIRECT BILGE SUCTIONS, No. and size 1 at 6" **Independent Power Pump Direct Suctions to the Engine Room Bilges,**
 No. and size 1 at 3 1/2" 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 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 _____
 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 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 _____

MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 2940 sq. ft.
 Is Forced Draft fitted No. No. and Description of Boilers 2. S.B. 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? _____
PLANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers Yes. Auxiliary Boilers _____ Donkey Boilers _____
 Superheaters _____ General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:— 1. C.I. Propeller — 2 each Top end, Bottom end & Main bearing bolts & nuts — 6 Coupling bolts & nuts — 2 each Feed & Bilge pump valves — 1/2 cwt. iron plate — 1/2 cwt. iron bar — 50 assorted bolts & nuts.

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

John Neill
 GENERAL MANAGER

Manufacturer.



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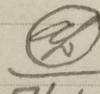
Lloyd's Register
 Foundation

1930. Feb. 7. Mar. 24, 25, 31. Apr. 8, 14, 22, 25, 17, 24, 25. May, 1, 2, 6, 8, 15, 16, 19, 23, 26, 30. June 2, 11, 13.
 During progress of work in shops - - 17, 23, 27, 30. July, 3, 14, 7. Aug. 15, 21, 22. Sep. 5, 24, 25, 26, 29. Oct. 1, 2, 6, 7.
 Dates of Survey while building { During erection on board vessel - - -
 Total No. of visits 44

Dates of Examination of principal parts—Cylinders ^{MP} 6-5-30. ^{LP} 4-30 Slides 2-5-30. Covers 16-5-30
 Pistons 2-5-30. Piston Rods 2-5-30. Connecting rods 25-4-30.
 Crank shaft 24-4-30. Thrust shaft 24-4-30. Intermediate shafts 23-6-30.
 Tube shaft ✓ Screw shaft 22-8-30. Propeller ^{W.} 24-4-30. ^{G.I. S.} 25-4-30.
 Stern tube 22-8-30. Engine and boiler seatings 24-9-30. Engines holding down bolts 29.9.30
 Completion of fitting sea connections 3.9.30
 Completion of pumping arrangements 6.10.30 Boilers fixed 2.10.30 Engines tried under steam 7.10.30
 Main boiler safety valves adjusted 7.10.30 Thickness of adjusting washers P ¹¹/₃₂ 5 ¹³/₃₂ P ⁵/₁₆ 5 ¹¹/₃₂
 Crank shaft material Steel Identification Mark 3225 T.D.S. Thrust shaft material Steel Identification Mark 5795 T.D.S.
 Intermediate shafts, material Steel Identification Marks 8625 T.D.S. Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark 8625 T.D.S. Steam Pipes, material Steel Test pressure 540 lb Date of Test 29/9/30
 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 carrying and burning oil fuel 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. The Engines and Boilers of this vessel have been built under Special Survey. The materials & workmanship are good. On completion the machinery was fitted in the vessel and tried under steam with satisfactory results.
The Machinery of this vessel is in good and efficient condition, and eligible, in our opinion, to have the notation  L.M.C. 10.30 marked in red in the Society's Register Book.

It is submitted that this vessel is eligible for THE RECORD. L.M.C. 10.30 C-L

Jr. 
 7/11/30

Stew Jones

The amount of Entry Fee ... £ 3 : 0 : 0 When applied for, 9 OCT 1930
 Special ... £ 42 : 15 : 0
 Donkey Boiler Fee ... £ : : :
 Travelling Expenses (if any) £ : : : 28/10/30

J. Platt. 8
 Engineer Surveyor to Lloyd's Register of Shipping.
Matthew Caldwell.

Committee's Minute TUE. 11 NOV 1930
 Assigned + L.M.C. 10.30 C.L.



SUNDERLAND
 Certificate to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.