

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 19 When handed in at Local Office 20 NOV. 1929 Port of Funchal 21 NOV 1929

No. in Survey held at Funchal Date, First Survey 9th May '29 Last Survey 11th Nov 1929
Reg. Book. on the S.S. "TORCHBEARER" (Number of Visits 36)

Built at Funchal By whom built J. Brown & Sons Ltd. Yard No. 182 Tons { Gross 1267 Net 684
Engines made at Do By whom made George Rank Ltd. Engine No. 1174 when made 1929
Boilers made at Do By whom made Do Boiler No. 1174 when made 1929
Registered Horse Power _____ Owners Gas Light & Coke Co Port belonging to Lisbon
Nom. Horse Power as per Rule 156 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No
Trade for which Vessel is intended Coal

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 72
Dia. of Cylinders 18"-30"-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 3/8" Crank webs Mid. length breadth 14 3/8" Thickness parallel to axis 6"
as fitted 9 3/8" Mid. length thickness 6" shrunk Thickness around eye-hole 4 1/8"

Intermediate Shafts, diameter as per Rule 8.9 Thrust shaft, diameter at collars as per Rule 9.345
as fitted None as fitted 9 3/8"

Tube Shafts, diameter as per Rule _____ Screw Shaft, diameter as per Rule 9.983 Is the { tube } shaft fitted with a continuous liner { Yes }
as fitted _____ as fitted 10 5/8" { screw }

Bronze Liners, thickness in way of bushes as per Rule 3/8" Thickness between bushes as per Rule _____ Is the after end of the liner made watertight in the propeller boss Yes
as fitted 5/8" as fitted 5/8" 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'-0" Pitch 13'-9" No. of Blades 4 Material C.I whether Moveable No Total Developed Surface 53 sq. feet
Length of Bearing in Stern Bush next to and supporting propeller 3'-4 3/4"

Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 18" 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 18" Can one be overhauled while the other is at work Yes

Feed Pumps { No. and size 1 @ 5 1/4" x 3 1/2" x 5" Pumps connected to the { No. and size 1 @ 9" x 11" x 10" }
How driven Steam Main Bilge Line How driven Steam

Ballast Pumps, No. and size 1 @ 9" x 11" x 10" Lubricating Oil Pumps, including Spare Pump, No. and size None
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 1 @ 2 1/2", 1 @ 3" & 1 @ 3 1/2" Bilge Direct.
In Holds, &c. 2 @ 2 1/2" No 1, 2 @ 2 1/2" No 2

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 5" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 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 Yes

What Pipes pass through the bunkers None (limbs) How are they protected _____
What pipes pass through the deep tanks For suction 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 None Is it fitted with a watertight door _____ worked from _____

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2490 sq
Is Forced Draft fitted No No. and Description of Boilers One of 158 with S.E. Working Pressure 180 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes

PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers Yes Auxiliary Boilers _____ Donkey Boilers Yes
(If not state date of approval)
Superheaters None General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:—Two connecting rods top end & 2 connecting rods bottom end both & nuts. 2 main bearings both. 1 set coupling bolts & nut feed & bilge pump valves. A quantity of assorted bolts & nuts & iron of various sizes. 1 set of P.I. Propeller. 1 set air pump valves. 1 set ballast pump valves. 1 set feed donkey pump valves. 3 condenser tubes. 6 boiler tubes. 1 safety valve spring. 1 ring for HP piston. 1 ring for MP piston.

The foregoing is a correct description,
FOR GEORGE CLARK LIMITED.

W433-0128

Manufacturer.



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Lloyd's Register
Foundation

W433-0128

1929. May 9, 27. June 11, 27. July 15, 24, 25, 26, 31. Aug. 7, 9, 20, 26, 28, 30. Sep. 5, 10, 18, 19, 23, 26.
 Oct. 1, 15, 22, 28, 29, 30, 31. Nov. 1, 4, 5, 6, 8, 11

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits 36

Dates of Examination of principal parts—Cylinders 26/8/29 Slides 11/6/29 Covers 4/6/29
 Pistons 27/5/29 Piston Rods 25/7/29 Connecting rods 31/7/29
 Crank shaft 28/8/29 Thrust shaft 28/8/29 Intermediate shafts -
 Tube shaft - Screw shaft 7/8/29 Propeller 30/8/29
 Stern tube 5/9/29 Engine and boiler seatings 28/10/29 Engines holding down bolts 1/11/29
 Completion of fitting sea connections 15/10/29
 Completion of pumping arrangements 1/11/29 Boilers fixed 31/10/29 Engines tried under steam 4/11/29
 Main boiler safety valves adjusted 4/11/29 Thickness of adjusting washers 7/2 5/2
 Crank shaft material I. STEEL Identification Mark 3300 Thrust shaft material I. STEEL Identification Mark 5575
 Intermediate shafts, material - Identification Marks - Tube shaft, material - Identification Mark -
 Screw shaft, material I. STEEL Identification Mark 5574 Steam Pipes, material L.W. STEEL Test pressure 540 LBS Date of Test 30/10/29
 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 Yes If so, state name of vessel S.S. "LADY OLGA"

General Remarks (State quality of workmanship, opinions as to class, &c. The engines & boilers of this vessel have been built under special survey & the materials & 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 & efficient condition & eligible in my opinion to have the notation LMC-11-29 & T.S.C.A. marked in the Surveyor's Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 11-29 Cl.

20/11/29
 R. J. 24/11/29

The amount of Entry Fee ... £ 3-0-0
 Special ... £ 39-0-0
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 19 NOV. 1929
 When received, 24.12.29

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 26 NOV 1929

Assigned + LMC 11-29 Cl.

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