

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Received at London Office

11th Dec 1922

Date of writing Report 11th Dec 1922 When handed in at Local Office 12th Dec 1922 Port of Southampton

No. in Survey held at Southampton
Reg. Book.

Date, First Survey Jan 9.

Last Survey Dec. 9. 1922

(Number of Visits 37.)

on the STEAM HOPPER "GANGUIL" II

Gross 598.

Net 283.23.

Built at Southampton By whom built White Brothers

Yard No. 221.

When built 1922.

Engines made at Southampton

By whom made J. S. Thornycroft & Co. Ltd.

Engines No. 6780

when made 1922.

Boilers made at

By whom made

Boiler No.

when made 1922.

Registered Horse Power

Owner James Redgiving, Lounge and Transport Co.

Port belonging to London.

Nom. Horse Power as per Rule 88. ✓

Is Refrigerating Machinery fitted for cargo purposes no.

Is Electric Light fitted yes.

ENGINES, &c.—Description of Engines

Triple expansion

Dia. of Cylinders 13.22.35" Length of Stroke 27" Revs. per minute 120. ✓ No. of Cylinders 3. No. of Cranks 3.

Dia. of Crank shaft journals as per rule 7.27" as fitted 7.27" Dia. of Crank pin 7.27" ✓ Crank webs Mid. length breadth 1.22" ✓ Mid. length thickness 5.34" ✓ shrunk Thickness parallel to axis 5.34" ✓ Thickness around eye-hole 3.22" ✓

Diameter of Thrust shaft under collars as per rule 7.27" as fitted 7.27" ✓ Diameter of Tunnel shaft as per rule 6.93" as fitted none. ✓ Diameter of Screw shaft as per rule 8.17" as fitted 8.17" ✓ Is the Screw shaft

fitted with a continuous liner the whole length of the stern tube no liner ✓ Is the after end of the liner made watertight in the propeller boss ✓

If the liner is in more than one length are the joints burned ✓ 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 appliance fitted at the after end of the shaft to permit

of it being efficiently lubricated ✓ Length of Stern Bush 2.11" ✓ Diameter of Propeller 9.6" ✓

Pitch of Propeller 11.0. ✓ No. of Blades 4. ✓ State whether Moveable no. ✓ Total Surface 36 ✓ square feet.

No. of Feed Pumps fitted to the Main Engines 2. ✓ Diameter of ditto 3.4" ✓ Stroke 11" ✓ Can one be overhauled while the other is at work yes. ✓

No. of Bilge Pumps fitted to the Main Engines 2. ✓ Diameter of ditto 3.4" ✓ Stroke 11" ✓ Can one be overhauled while the other is at work yes. ✓

Total number and size of power driven Feed and Bilge Auxiliary Pumps One donkey for feed, bilge & ballast 6x4 ✓

No. and size of Pumps connected to the Main Bilge Line 6 DUPLEX. ✓ One feed 6x8 1/2 x 13 inches

No. and size of Ballast Pumps ✓ No. and size of Lubricating Oil Pumps, including Spare Pump.

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

Bilge Pumps;—In Engine and Boiler Room One 2 1/4", two 2" ✓ and in Holds, &c. One 2 1/4", four 2" ✓

No. and size of Main Water Circulating Pump Bilge Suctions One - 4" ✓ No. and size of Donkey Pump Direct Suctions

to the Engine Room Bilges One - 2 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 below. ✓

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 For bilge pipes, 1 main suction ✓ How are they protected Wood casing. ✓

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 ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record S. ✓) Total Heating Surface of Boilers 1620 sq. ft. ✓

Is Forced Draft fitted no. ✓ No. and Description of Boilers One single-ended. ✓ 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. ✓ Auxiliary Boilers. ✓ Donkey Boilers

(If not state date of approval)

General Pumping Arrangements with ship report. ✓ Oil fuel Burning Piping Arrangements none. ✓

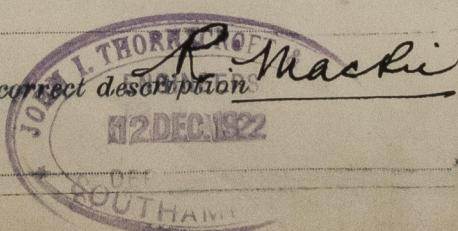
SPARE GEAR. State the articles supplied:—Two each top & bottom end connecting rod

bolts and nuts, two main bearing bolts nuts, one set of coupling

bolts and nuts, one set each feed & bilge pump valves, iron of various

sizes, a quantity of assorted bolts nuts, etc. Main bearing gauge.

The foregoing is a correct description



Manufactured



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Lloyd's Register
Foundation

Jan 9.23 Feb 1.20. Mar 9.18.24.27.31. Apr 3.11.20.21.25. May 2.4.8.11.15.17.26.3
 During progress of work in shops -- June 17.20. July 3.28. ~~Sept 2~~ Oct 12.13.16.
 Dates of Survey while building During erection on board vessel --- Nov. 8.15.21.24. Dec 1.9.
 Total No. of visits 37.

Dates of Examination of principal parts - Cylinders 20.4.22. Slides 2.5.22.
 Covers 2.5.22. Pistons 2.5.22. Rods 8.5.22.
 Connecting rods 4.5.22. Crank shaft 3.7.22. Thrust shaft 3.7.22.
 Tunnel shafts ✓ Screw shaft 16.10.22. Propeller 16.10.22.
 Stern tube 16.10.22. Engine and boiler seatings 12.10.22. Engines holding down bolts 15.9.22.
 Completion of pumping arrangements Boilers fixed 15.9.22. Engines tried under steam 9.12.22. ✓
 Completion of fitting sea connections 12.10.22. Stern tube 13.10.22. Screw shaft and propeller 13.10.22.
 Main boiler safety valves adjusted 9.12.22. ✓ Thickness of adjusting washers PV ¹⁴/₃₂, SV ⁵/₁₆"
 Material of Crank shaft Steel Identification Mark on Do. 6058. 1.2.22.
 Material of Thrust shaft " Identification Mark on Do. 1003. 24.11.21.
 Material of Tunnel shafts ✓ Identification Marks on Do. 3614. 1.12.21.
 Material of Screw shafts " Identification Marks on Do. 3414. 1.12.21.
 Material of Steam Pipes Copper. Test pressure 360 lbs. ✓ Date of Test 21.11.22.
 Is an installation fitted for burning oil fuel ✓ 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 GANGLI I.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engines & boiler of this vessel have been constructed in accordance with the rules & approved plans. The materials and workmanship are sound & good. The boiler tested by hydraulic pressure and with the engines secured on board and tested under steam they are now in good order, and safe working condition, and respectfully submitted as being eligible in my opinion to be classed, with the notation of + LMC 12.22 in the Register book.

It is submitted that
 this vessel is eligible for
THE RECORD. + L.M.C. 12.22.

CWS. J.A.D.
 14/12/22

Certificate sent to Don Luss. 15/12/22.

The amount of Entry Fee ... £ 2 : 0 :
 Special ... £ 22 : 0 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 12/12/1922
 When received, 13/12/1922.

Committee's Minute

FRI 15 DEC. 1922

Assigned

+ LMC 12.22

CERTIFICATE WRITTEN



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J.B. Mackillop. F.R.S. Dryden 10/11/25
 Engineer Surveyor to Lloyd's Register of Shipping