

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 Date, First Survey Jan 9 Last Survey Dec 9 1922
Reg. Book. on the STEAM HOPPER "GANGUIL" II (Number of Visits 37)

Built at Southampton By whom built White Brothers Yard No. 221 Tons } Gross 598
When built 1922 Net 283.23

Engines made at Southampton By whom made J. Thornycroft & Co. Ltd Engine No. 6780 when made 1922

Boilers made at _____ By whom made _____ Boiler No. _____ when made 1922

Registered Horse Power ✓ Owner James Redgiving Loughe 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 1/2, 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 1/2 Dia. of Crank pin 7 1/2 Crank webs Mid. length breadth 1 1/2 1/2 Thickness parallel to axis 5 3/4
as per rule 5 3/4 as fitted 5 3/4 shrunk Thickness around eye-hole 3 1/2

Diameter of Thrust shaft under collars as per rule 7.27 as fitted 7 1/2 Diameter of Tunnel shaft as per rule none as fitted _____ Diameter of Screw shaft as per rule 8.17 as fitted 8 3/4 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 1/4 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 1/4 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 6 DUPLEX One feed 6x8 1/2 x 13 1/2

No. and size of Pumps connected to the Main Bilge Line _____ 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 Pean 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 ✓

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

NOTE:—This vessel has been sold to the Spanish Government.

The foregoing is a correct description
J. I. THORNTON
R. Mackie
112 DEC 1922
SOUTHAMPTON

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Foundation

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During progress of work in shops -- } Jan 9.23 Feb 1.20. Mar 9.18.24.27.31. Apr 3.11.20.21.25. May 2.4.8.11.15.17.26.31
 June 17.20. July 3.28. ~~Sept 2~~ Oct 12.13.16.
 During erection on board vessel --- } Nov 8.15.21.27. 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 ¹¹/₃₂, 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 engine & 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 +L.M.C. 12.22 in the Register book.

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

C.A.S. J.A.B. 14/12/22

Certificate to be sent to Gen. Suss. 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.

J.G. Mackillop. G.R. Dryden Toynbee
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI. 15 DEC. 1922
 Assigned + L.M.C. 12.22

CERTIFICATE WRITTEN



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