

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

1925

Received at London Office

TUES. 4 AUG 1925

Date of writing Report 31 July 1925 When handed in at Local Office 31 July 1925 Port of WEST HARTLEPOOL

No. in Survey held at West Hartlepool Date, First Survey 21 Jan'y Last Survey 31 July 1925
 Reg. Book. 39652 on the S.S. "KARTIGI" (Number of Visits 74) Tons { Gross 2346.59
 Net 1166.62

Built at West Hartlepool By whom built Wm Gray & Co. Ltd. Yard No. 974 When built 1925

Engines made at ditto By whom made Central Marine Engine No. 974 when made 1925

Boilers made at ditto By whom made Engine Works Boiler No. 974 when made 1925

Registered Horse Power _____ Owners Union S.S. Co. of New Zealand Port belonging to Wellington N.Z.

Nom. Horse Power as per Rule 274 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

Trade for which Vessel is intended Ocean going.

ENGINES, &c.—Description of Engines Triple expansion Revs. per minute _____

Dia. of Cylinders 20 1/2 · 33 1/2 · 55 Length of Stroke 39" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 10.95" as fitted 11.32" Crank webs Mid. length breadth 16 1/2" Thickness parallel to axis 6 1/2"
 as fitted 11.32" Crank pin dia. 11.32" Mid. length thickness 6 1/2" shrunk Thickness around eye-hole 4.76"

Intermediate Shafts, diameter as per Rule 10.43 Thrust shaft, diameter at collars as per Rule 10.95
 as fitted none as fitted 11.32"

Tube Shafts, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule 11.615" Is the tube shaft fitted with a continuous liner { yes ✓
 as fitted _____ as fitted 12" Is the screw shaft fitted with a continuous liner { _____

Bronze Liners, thickness in way of bushes as per Rule 1.65" Thickness between bushes as per Rule 1.49" Is the after end of the liner made watertight in the propeller boss yes ✓
 as fitted 3/32" as fitted 9/16" 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 yes ✓
 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 no ✓ Length of Bearing in Stern Bush next to and supporting propeller 4'-6" ✓

Propeller, dia. 14'-3" Pitch 12'-3" No. of Blades 4 Material Bronze whether Movable no Total Developed Surface 63 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 26 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 26 Can one be overhauled while the other is at work yes ✓

Feed Pumps { No. and size 2. 3" x 26" main Pumps connected to the { No. and size 2 main 3 1/2" x 26" 1 Ballast 9" x 10 1/2" x 10"
 How driven 1 Gen Sew. 7 1/2" x 5" x 6" dup Main Bilge Line How driven Steam. duplex ✓

Ballast Pumps, No. and size 1. 9" x 10 1/2" x 10" dup 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 of 2 1/2" ✓

In Holds, &c. No 1 2 of 2 1/4" No 2 2 of 4" ✓

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 mild 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 are carried through the bunkers none ✓ 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 none ✓ Is it fitted with a watertight door _____ ✓ worked from _____

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 5076 sq. ft.

Is Forced Draft fitted no No. and Description of Boilers 2 single ended Working Pressure 190 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 _____ ✓

(If not state date of approval)

Superheaters _____ ✓ General Pumping Arrangements yes Oil fuel Burning Piping Arrangements _____ ✓

SPARE GEAR. State the articles supplied:— 2 bolts & nuts for Con. rod top ends. 2 ditto bottom ends 2 ditto main bearings 1 set. Coupling ditto. 1 set feed & bilge pump valves. 1 set piston springs. 1 piston rod. 1 slide rod. 1 pair crank pin bearings 1 main bearing. 1 crank web. 1 crank body part 1 crank pin. 1 set packing rings for H.P. M.P. & L.P. pistons. 1 air pump rod. 1 tail shaft. 1 propeller. 1 feed pump ram. 8 fibre valves for circulating pump. 8 rubber valves for ballast pump. 1 set piston rings for feed pump. 24 condenser tubes 12 boiler tubes. Assorted bolts, nuts, and iron.

The foregoing is a correct description,
 (W. Gray & Co. Ltd.)

W. Gray & Co. Ltd. Manufacturer.
 MANAGING DIRECTOR, C.M.E.W.



00244-002259-0131

8981

1925 - Jan 21. 26. 30. Feb 3. 4. 6. 9. 11. 26. 27. Mar 2. 3. 4. 9. 10. 11. 13. 16. 17. 20. 22. 24. 25. 26. 27. 30. 31.
 Apr 1. 2. 3. 6. 7. 9. 15. 16. 17. 20. 21. 22. 24. 27. 29. 30. May 1. 4. 6. 7. 12. 13. 14. 15. 18. 21. 22. 27. 29.
 June 3. 4. 4. 8. 9. 11. 12. 15. 16. 17. 22. 23. 27. July 8. 16. 29. 31.
 Total No. of visits 74.

Dates of Examination of principal parts—Cylinders 26.2.25—30.3.25 Slides 16.4.25—27.4.25 Covers 13.3.25—30.3.25
 Pistons 7.4.25—27.4.25 Piston Rods 17.3.25—3.4.25 Connecting rods 3.2.25—25.3.25
 Crank shaft 21.1.25—6.4.25 Thrust shaft 26.3.25—6.4.25 Intermediate shafts ✓
 Tube shaft ✓ Screw shaft 2.4.25—12.5.25. Propeller 7.5.25
 Stern tube 27.4.25—4.5.25 Engine and boiler seatings 27.4.25. 29.5.25. Engines holding down bolts 9.6.25
 Completion of pumping arrangements 9.6.25. Boilers fixed 4.6.25 Engines tried under steam 23.6.25
 Main boiler safety valves adjusted 23.6.25. Thickness of adjusting washers PR. $\frac{11}{32}$ " S $\frac{3}{8}$ " SP $\frac{3}{8}$ " S $\frac{3}{8}$ "
 Crank shaft material Ingot Steel Identification Mark 6345 H. Thrust shaft material Ingot Steel Identification Mark 7597 Copenhagen
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Ingot Steel Identification Mark 5620 N Steam Pipes, material L.W. Steel Test pressure 600 lbs Date of Test 6.5—15.6.25
 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 no If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
 This vessel's machinery has been built and installed under Special Survey.
 The materials and workmanship are good and efficient.
 On completion it was tried at work under full steam with satisfactory results, and is now eligible to have the notation \boxplus L.M.C. 7.25.

It is submitted that this vessel is eligible for THE RECORD. \boxplus L.M.C. 7.25. C.L.

[Signature]
 5/8/25

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

The amount of Entry Fee ... £ 4 : 0 :
 Special ... £ 66 : 2 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 31 July 1925
 When received, 19.25

R.D. Shilston.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI, 7 AUG 1925

Assigned

+ L.M.C. 7.25
 C.L.

CERTIFICATE WRITTEN.



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