

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

-4 DEC 1924

Date of writing Report

10

When handed in at Local Office

1/12/10 24 Port of

NEWCASTLE-ON-TYNE.

No. in Survey held at
Reg. Book.

Newcastle

Date, First Survey 21st July 1924 Last Survey 1st Dec. 1924

(Number of Visits 36)

90947 on the

Steel S. "TACITO"

Tons } Gross
Net

Built at Newcastle

By whom built Wm. Humberland & Co. Ltd.

Yard No. 264

When built 1924

Engines made at Newcastle

By whom made Walsend Slipway & Eng. Co. Ltd.

Engine No. 841

when made 1924

Boilers made at Newcastle

By whom made Walsend Slipway & Eng. Co. Ltd.

Boiler No. 841

when made 1924

Registered Horse Power

Owners Cia. Gen. de Combustibles

Port belonging to Buenos Ayres

Nom. Horse Power as per Rule 626

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines

Inverted Triple Expansion

Dia. of Cylinders 27.45-75" Length of Stroke 54" Revs. per minute No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 14.47" as fitted 15" Dia. of Crank pin 15" Crank webs Mid. length breadth 24 1/2" Thickness parallel to axis 10"
 Diameter of Thrust shaft under collars as per rule 14.47" as fitted 15" Diameter of INTER. shaft as per rule 13.75" as fitted 15" Diameter of Screw shaft as per rule 15.35" as fitted 16 1/4" Is the Screw shaft fitted with a continuous liner the whole length of the stern tube Yes 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 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 No Length of Stern Bush 69 1/2" Diameter of Propeller 19'0"

Pitch of Propeller 17'0" No. of Blades 4 State whether Moveable Yes Total Surface 115 square feet.

No. of Feed Pumps fitted to the Main Engines Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Bilge Pumps fitted to the Main Engines Diameter of ditto Stroke 26" Can one be overhauled while the other is at work Yes

Total number and size of power driven Feed and Bilge Auxiliary Pumps 2 MAIN FEED 10" x 10" x 10" 2" 1/2" 2" 1/2" 1 AUX. FEED 5 1/2" x 8" BALLAST 10" x 10" x 10" GENERAL SERVICE 7" x 8"

No. and size of Pumps connected to the Main Bilge Line 2 Main Engine Rams, Ballast & General Service

No. and size of Ballast Pumps One 10" x 10" x 10" No. and size of Lubricating Oil Pumps, including Spare Pump None

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

Bilge Pumps;—In Engine and Boiler Room 3-3 1/2" Copperdam 3" and in Holds, &c. None

The Upper Peak (2-2 1/2") Fire Hold (2-3") Fire Deep (2-4") For Copperdam (2-4") & after Copperdam (2-4") and each

summits tank (1-4") can be pumped out by the Main Ballast & the Oil Service Pumps.

No. and size of Main Water Circulating Pump Bilge Suctions One 10" No. and size of Donkey Pump Direct Suctions

to the Engine Room Bilges One 4 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 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 Both

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 oil Copperdam Suctions How are they protected Not protected

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 5) Total Heating Surface of Boilers 9672 sq. ft.

Is Forced Draft fitted Yes No. and Description of Boilers Three Single-Ended Cyl. Mult. 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

(If not state date of approval) Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:—2 Main Bearing Bolts & Nuts—2 Top & 2 Bottom End Bolts & Nuts—One set Coupling Bolts

assorted Bolts, nuts & washers, set of Belts, colls, set of suction & discharge pump valves for one pump—Cast Iron propeller boss

with studs & nuts—2 Cast Iron propeller blades—One Sail Shaft—Set of Bottom End bearings—Set of Top End bearings—

set Rambottom rings for H.P. piston—Set dockwood & charcoal Ring for each M.H. & L.P. pistons—Rings for steam & water

pistons of Ballast—G.S. & Aux. Feed Pumps & set of suction & delivery valve beds for each of these pumps, 12 Main

& 12 Aux. Condenser Tubes—In Oil Fuel Set suction strainer bags—Set of discharge strainer bags for each strainer—

12 Burners—36 nozzles—36 diaphragms—1 Heating Tube for lighting up.

Set of Bilge Pump valves for Main Engine

The foregoing is a correct description

Manufacturer.

010913-010923-0216

© 2020

Lloyd's Register
Foundation

1924
 July 21. 29. 30 Aug. 1. 6. 11. 13. 18. 22. 26. 28. 29. Sept. 4. 8. 11. 12. 18. 26. Oct. 1. 3. 6. 7. 13. 14. 16. 20. 24. 30. 31
 Nov. 7. 10. 12. 14. 18. 21. Dec. 1.
 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. 9. 24
 Covers 26. 9. 24
 Connecting rods 18. 9. 24
 Inlet Thrust shaft 8. 9. 24
 Stern tube 28. 8. 24
 Completion of pumping arrangements 21. 11. 24
 Completion of fitting sea connections 16. 10. 24
 Main boiler safety valves adjusted 21. 11. 24
 Material of Crank shaft S. M. Ingot Steel
 Material of Thrust shaft S. M. Ingot Steel
 Material of Inlet Thrust shaft S. M. Ingot Steel
 Material of Screw shafts S. M. Ingot Steel
 Material of Steam Pipes S. M. Ingot Steel
 Is an installation fitted for burning oil fuel Yes
 Have the requirements of the Rules for carrying and burning oil fuel been complied with Yes
 Is this machinery duplicate of a previous case No
 General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been constructed under Special Survey. The materials and workmanship are sound & good. It has been efficiently installed on board and tried out under steam at a mooring trial. An oil-fuel-burning plant on the Wallend-Howden system has been installed to approved plans & the oil suction and discharge lines have been tested in accordance with the Rules. The Rule requirements as to controls, fire-extinguishing etc of Section 35 have been complied with.

In my opinion, the vessel is now eligible for notation + L.M.C. 12. 24 C.L.
 Fitted for oil fuel 12. 24 F.P. above 150°F

It is submitted that
 this vessel is eligible for
 THE RECORD. + LMC 12. 24. FD. CL.
 Fitted for oil fuel 12. 24. F.P. above 150°F.

C. J. D.
 4/12/24

R. Lee Amess
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 6 : -
 Special ... £ 106 : 6
 Donkey Boiler Fee ... £ :
 Travelling Expenses (if any) £ :
 Committee's Minute FRI. 5 DEC 1924

Assigned + LMC 12. 24 FD. CL.
 Fitted for oil fuel 12. 24
 F.P. above 150°F



© 2020
 Lloyd's Register
 Foundation