

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office - 5 OCT 1929

Date of writing Report 11.10.29 When handed in at Local Office - 3 OCT. 1929 Port of Liverpool
 To. in Survey held at Birkenhead Date, First Survey 8/4/29 Last Survey 25/9/1929
 Reg. Book. 1250 on the S. S. 'Athelstan' (Number of Visits 54) Gross 1180 Tons Net 568
 Built at Birkenhead By whom built Cammell Laird & Co Ltd Yard No. 958 When built 1929
 Engines made at Birkenhead By whom made Cammell Laird & Co Ltd Engine No. 958 when made 1929
 Boilers made at Birkenhead By whom made Cammell Laird & Co Ltd Boiler No. 958 when made 1929
 Registered Horse Power Owners United Molasses Co Ltd Port belonging to Liverpool
 Nom. Horse Power as per Rule 203 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yls
 Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Vertical Triple Expansion Revs. per minute 90
 Dia. of Cylinders 17.28" 46" Length of Stroke 30" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 8.2" Crank pin dia. 9 1/4" Crank webs Mid. length breadth 17 3/4" Thickness parallel to axis 5 3/4" shrunk
 as fitted 8.2" Mid. length thickness 5 3/4" Thickness around eye-hole 4 3/8"
 Intermediate Shafts, diameter as per Rule 8.3" Thrust shaft, diameter at collars as per Rule 8.7" as fitted 8.7"
 Tube Shafts, diameter as per Rule 8.2" Screw Shaft, diameter as per Rule 9 3/4" Is the shaft fitted with a continuous liner Yls
 as fitted 8.2" as fitted 9 3/4" Is the screw shaft fitted with a continuous liner Yls
 Bronze Liners, thickness in way of bushes as per Rule 5.7" Thickness between bushes as per Rule 5" Is the after end of the liner made watertight in the
 as fitted 5.7" If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner one length
 propeller boss Yes 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 tight fit
 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 If so, state type Length of Bearing in Stern Bush next to and supporting propeller 3' 5" Yls
 Propeller, dia. 11' 6" Pitch 12' 0" No. of Blades 4 Material Cast Iron whether Moreable Yls Total Developed Surface 44 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 17" Can one be overhauled while the other is at work Yls
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 17" Can one be overhauled while the other is at work Yls
 Feed Pumps No. and size one 6" x 8 1/2" x 13 1/2" Pumps connected to the Main Bilge Line No. and size one 8" x 8" x 9", one 5 1/2" x 6" Yls
 How driven Steam How driven Steam
 Ballast Pumps, No. and size one 8" x 8" x 9" 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 Two 2 1/4" in fwd pump room two 3" in aft pump room
 In Holds, &c. Two 2" in hold one 2" in forward pump room two 3" in aft pump room
 Connected to power pumps one 2 1/4" in bunkers connected to main bilge line
 Main Water Circulating Pump Direct Bilge Suctions, No. and size one 7" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size one 3" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yls
 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 Yls
 Are all Sea Connections fitted direct on the skin of the ship Yls Are they fitted with Valves or Cocks both Yls
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yls 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 Yls Are the Blow Off Cocks fitted with a spigot and brass covering plate Yls
 What Pipes pass through the bunkers bilge suction How are they protected wood casing Yls
 What pipes pass through the deep tanks Have they been tested as per Rule Yls
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yls
 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 Yls Is the Shaft Tunnel watertight none Is it fitted with a watertight door worked from Yls
MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 4200 sq. ft.
 Is Forced Draft fitted No No. and Description of Boilers Two cylindrical built Working Pressure 180 lb sq. in.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yls
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? Yls
PLANS. Are approved plans forwarded herewith for Shafting Yls Main Boilers Yls (3) Auxiliary Boilers Yls Donkey Boilers Yls
 (If not state date of approval) Superheaters Yls General Pumping Arrangements Yls (2) Oil fuel Burning Piping Arrangements Yls
SPARE GEAR. State the articles supplied:— As per Rule requirements and attached list.

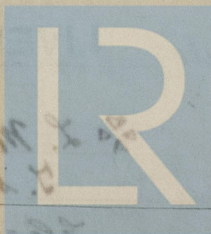
The foregoing is a correct description,

CAMMELL LAIRD AND COMPANY LIMITED.

J. W. Laird

SECRETARY.

Manufacturer.



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Lloyd's Register Foundation

003712-003719-0196

During progress of work in shops - - 1929. Apr 5. 24. 30. May 2. 7. 8. 13. 14. 27. 28. 30. June 4. 12. 13. 14. 17. 19. 20. 21. 24. 25. 26. July 3. 6. 8. 10. 11. 12. 13. 15. 16. 17. 19. 24. 30. Aug 13. 14. 16. 19. 22. 24. 26. 27. 29. Sept 3. 4. 5. 6. 7. 10. 11. 13. 18. 25.
Dates of Survey while building During erection on board vessel - - -
Total No. of visits 54

Dates of Examination of principal parts—Cylinders 27/5/29 17/6/ 24/6/ Slides 24/6/29 Covers 27/5/29 24/6/29
Pistons 10/7/29 Piston Rods 27/5/29 10/7/ Connecting rods 27/5/29 10/7/29
Crank shaft 12/6/29 24/6/ Thrust shaft 12/6/29 Intermediate shafts
Tube shaft Screw shaft 6/7/29 Propeller 12/7/29 17/7/29 24/8/29
Stern tube Engine and boiler seatings 27/5/29 Engines holding down bolts 6/4/29
Completion of fitting sea connections 27/5/29 Boilers fixed 10/9/29 Engines tried under steam
Completion of pumping arrangements 13/9/29 Thickness of adjusting washers PA 9/16 SA 9/16 PF 9/16 SF 9/16
Main boiler safety valves adjusted 13/9/29 Identification Mark 3034 Thrust shaft material Steel Identification Mark 2932.
Crank shaft material Steel Identification Marks Tube shaft, material Identification Mark
Intermediate shafts, material Identification Mark 2931 Steam Pipes, material Steel Test pressure 540 lb. Date of Test 24/8/29 6/9/29
Screw shaft, material Steel Identification Mark 2931 Is the flash point of the oil to be used over 150°F. ✓
Is an installation fitted for burning oil fuel ho Have the requirements of the Rules for the use of oil as fuel been complied with ✓
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo ✓ If so, have the requirements of the Rules been complied with ✓
Is this machinery duplicate of a previous case ho If so, state name of vessel ✓
General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been constructed under special survey, and is in accordance with the Rules and the approved plans. It is now eligible in my opinion for record of +LMC 9-29 in Register book, having been examined under full working conditions during sea trials and found satisfactory.

It is submitted that this vessel is eligible for THE RECORD. +LMC 9-29 CL.

J. B. A.
8/10/29

J. B. A.
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 40 : 0 : 0 When applied for, -4 OCT. 1929
Special ... £ 50 : 15 : 0 When received, 1.11.29
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
LIVERPOOL -4 OCT. 1929

Committee's Minute
Assigned L. M. C. 9:29.
J. L. C. L.
Elec. Light.