

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 5.6.28 When handed in at Local Office 24.6.28 Port of Greenock  
 No. in Survey held at Greenock Date, First Survey 23rd November 1924 Last Survey 26th June 1928  
 Reg. Book. on the S/S "Temple Pier" (Number of Visits 42) Tons { Gross 4312 Net 4312  
 Built at P. Glasgow By whom built W. Hamilton & Co. Ltd. Yard No. 403 When built 1928  
 Engines made at Greenock By whom made J. & T. Caird & Co. Ltd. Engine No. 646 when made 1928  
 Boilers made at ditto By whom made ditto Boiler No. 646 when made 1928  
 Registered Horse Power Owners Temple & Co. (Limited) Port belonging to London  
 Nom. Horse Power as per Rule 426 436 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes  
 Trade for which Vessel is intended Foreign

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 65  
 Dia. of Cylinders 25"-42"-40" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3  
 Crank shaft, dia. of journals as per Rule 13.404 Crank pin dia. 13 3/4" Crank webs Mid. length breadth shrunk Thickness parallel to axis 8 5/8"  
 as fitted 13 3/4" Mid. length thickness shrunk Thickness around eye-hole 6 1/16"  
 Intermediate Shafts, diameter as per Rule 13.06 Thrust shaft, diameter at collars as per Rule 13.404  
 as fitted 13 1/8" as fitted 13 3/4"  
 Tube Shafts, diameter as per Rule shrunk Screw Shaft, diameter as per Rule 14.5 Is the wood screw shaft fitted with a continuous liner Yes  
 as fitted shrunk as fitted 14 3/4"  
 Bronze Liners, thickness in way of bushes as per Rule 41 Thickness between bushes as per Rule 46 Is the after end of the liner made watertight in the  
 as fitted 3 1/4" as fitted 3 1/8" propeller boss Yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner 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 Yes  
 If two liners are fitted, is the shaft lapped or protected between the liners Yes 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 159  
 Propeller, dia. 14.6" Pitch 14.9" No. of Blades 4 Material Brown whether Moveable No Total Developed Surface 100 sq. feet  
 Feed Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 24" Can one be overhauled while the other is at work Yes  
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 24" Can one be overhauled while the other is at work Yes  
 Feed Pumps { No. and size 2 (8x6x8) (5x3 1/2x6) Pumps connected to the Main Bilge Line { No. and size 1 (9x13x10)  
 How driven Steam How driven Steam  
 Ballast Pumps, No. and size 9x13x10 Lubricating Oil Pumps, including Spare Pump, No. and size —  
 Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary  
 Bilge Pumps;—In Engine and Boiler Room 3 2 3/4" Triple Well 1 2 1/2"  
 In Holds, &c. 901 2 2 3/4" 902 2 2 3/4" 903 2 3" 904 2 2 3/4"

Main Water Circulating Pump Direct Bilge Suctions, No. and size one 1 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 No. and size one 1 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 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 pass through the bunkers None How are they protected —  
 What pipes pass through the deep tanks None 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 Yes Is it fitted with a watertight door Yes worked from U.E.R. Platforms

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 4335  
 Is Forced Draft fitted No No. and Description of Boilers 3 Single ended 2SB Working Pressure 200  
 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 Yes Main Boilers Yes Auxiliary Boilers — Donkey Boilers —  
 (If not state date of approval)  
 Superheaters — General Pumping Arrangements — Oil fuel Burning Piping Arrangements —

SPARE GEAR. State the articles supplied:— 2 Connecting Rod for 2nd lots, Duts ditto  
for bottom end, 2 main bearing bolts, one set of coupling  
bolts, one set of feed & bilge pump valves,  
a quantity of assorted bolts & nuts, & one of various sizes

The foregoing is a correct description,  
 FOR JOHN G. KINCAID & COY, LIMITED

*J. G. Caird*  
 DIRECTOR

Manufacturer.



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 Lloyd's Register  
 Foundation

Dates of Survey while building

During progress of work in shops - - (1928) Nov. 23-30. Dec. 5-20. (1928) Jan. 19-24. Feb. 4-10-16-21. Mar. 5-8-12-14-22-30. April 2-4-5-9-10-19-21-26-24. May 4-8-10-14. 18-21-23-25-28-29-30. June 1-4-11-12-14-15-26.

During erection on board vessel - - -

Total No. of visits 43.

Dates of Examination of principal parts—Cylinders 14. 5. 28 Slides 19. 4. 28 Covers 14. 5. 28  
 Pistons 25. 5. 28 Piston Rods 25. 5. 28 Connecting rods 24. 4. 28  
 Crank shaft 22. 3. 28 Thrust shaft 29. 5. 28 Intermediate shafts 28. 5. 28  
 Tube shaft ✓ Screw shaft 21. 5. 28 Propeller 21. 5. 28  
 Stern tube 25- 5- 28 Engine and boiler seatings 25- 5- 28 Engines holding down bolts 12- 6- 28  
 Completion of fitting sea connections 25. 5. 28  
 Completion of pumping arrangements 26. 6. 28 Boilers fixed 12. 6. 28 Engines tried under steam 26. 6. 28  
 Main boiler safety valves adjusted 15. 6. 28 Thickness of adjusting washers P<sup>13</sup> 3/2 S 5/16 P<sup>C.B</sup> 3/2 S 5/16 P<sup>S.B</sup> 5/16 S 3/8  
 Crank shaft material \$ Identification Mark LR 646 WGM. Thrust shaft material \$ Identification Mark LR 124 WGM  
 Intermediate shafts, material \$ Identification Marks LR 1514, 163, 148 } Tube shaft, material ✓ Identification Mark ✓  
 Screw shaft, material \$ Identification Mark LR 964 WGM Steam Pipes, material Iron Test pressure 600 ✓ Date of Test 11-6-28  
 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 yes If so, state name of vessel S/S Temple Lane No 18910

General Remarks (State quality of workmanship, opinions as to class, &c.)  
 These Engines & Boilers have been built under special Survey in accordance with the approved plans & the workmanship & material are of good quality. They are now securely fitted on board, tried under steam & found satisfactory.  
 The machinery is eligible in my opinion for the record of  
 ✠ L M C 6-28

It is submitted that this vessel is eligible for THE RECORD. + L M C 6-28 Cl.

J.S.A. 9/7/28. J.P.R.

The amount of Entry Fee ... £ 5 : - :  
 Special ... £ 90 : 8 :  
 Donkey Boiler Fee ... £ : :  
 Travelling Expenses (if any) £ : :  
 When applied for, 26<sup>th</sup> JUNE 1928.  
 When received, 27<sup>th</sup> JUNE 1928.

W. Gordon-Maclean  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3 - JUL 1928

Assigned + L.M.C. 6.28



Rpt. 5  
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Certificate to be sent to GREENOCK.  
 The Surveyors are requested not to write on or below the space for Committee's Minute.