

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 15-10-29 When handed in at Local Office 14-11-29 Port of Greenock
 No. in Survey held at Greenock Date, First Survey 13th December 1928 Last Survey 14th November 1929
 Reg. Book. S/S "Dilbury" (Number of Visits 63)
 on the S/S "Dilbury" Tons { Gross 4615.56
 Built at P. Glasgow By whom built R. Duncan & Co Yard No. 393 When built 1929
 Engines made at Greenock By whom made Rankin & Blackmore Engine No. 434 when made 1929
 Boilers made at ditto By whom made ditto Boiler No. 434 when made 1929
 Registered Horse Power _____ Owners Alexander Shuffing Port belonging to London
 Nom. Horse Power as per Rule 489 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 Trippe Expansion Revs. per minute 45
 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 13.407 Crank pin dia. 14" Crank webs Mid. length breadth shrunk Thickness parallel to axis 8.5/4"
 as fitted 14" Mid. length thickness _____ Thickness around eye-hole 6.1/4"
 Intermediate Shafts, diameter as per Rule _____ Thrust shaft, diameter at collars as per Rule 13.407
 as fitted 13.3/8" as fitted 14"
 Tube Shafts, diameter as per Rule _____ Screw Shaft, diameter as per Rule 14.5/32 Is the tube shaft fitted with a continuous liner { yes
 as fitted _____ as fitted 14.7/8" Is the screw shaft fitted with a continuous liner { _____
 Bronze Liners, thickness in way of bushes as per Rule 4.42 Thickness between bushes as per Rule 5.58 Is the after end of the liner made watertight in the
 as fitted 3.1/16" as fitted 11.1/16" 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 _____
 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 59.1/2"
 Propeller, dia. 4.9" Pitch 18.0" No. of Blades 4 Material Brass whether Movable no Total Developed Surface 112 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 3.3/4" Stroke 2.4" Can one be overhauled while the other is at work yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 2.4" Can one be overhauled while the other is at work yes
 Feed Pumps { No. and size 2 (6x18) (5x8) Pumps connected to the { No. and size one 12x12"
 How driven Steam Main Bilge Line { How driven Steam
 Ballast Pumps, No. and size one 12x12" 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 at 3" 1. 2. 1/2" (dry tank)
 In Holds, &c. no. 1. 2. 3" no. 2. 2. 3/4" Deck Tank 2. 3" no. 3. 2 2. 1/4" one 3"
Tunnel 2. 2. 1/4"

Main Water Circulating Pump Direct Bilge Suctions, No. and size one 6" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size one 4.3/4" 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 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 _____ 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 yes Is it fitted with a watertight door yes worked from U.E.R. PLATFORM

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers one Boiler 12607 4320
 Is Forced Draft fitted yes No. and Description of Boilers single ended Working Pressure 200
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes
 IS A auxiliary BOILER FITTED? yes If so, is a report now forwarded? yes
 PLANS. Are approved plans forwarded herewith for Shafting yes Main Boilers yes Auxiliary Boilers yes Donkey Boilers _____
 Superheaters _____ General Pumping Arrangements yes Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:— 2 connecting Rod top end bolts, nuts
ditto for bottom end. 2 main bearing bolts, one
set of coupling bolts, one set of Feed & Bilge Pump
bolts a quantity of assorted bolts & nuts. Iron of
various sizes

The foregoing is a correct description,
RANKIN & BLACKMORE, LTD.,

A. J. Smith Director.

Manufacturer.



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Lloyd's Register
Foundation

W343-0007

If not, state whether, and when, one will be sent? Is a Report also sent to the... The words which do not apply should be deleted.

Dates of Survey while building

(1928) Dec. 13, 19, 28. (1929) Jan. 10, 16, 23. Feb. 1, 5, 11, 13, 26, 28. Mar. 11, 13, 19, 22, 24. April 1, 10, 15, 19, 25, 30. May 4, 11, 21, 23, 28. June 11, 14, 18, 20.

During progress of work in shops - - July 2, 14, 25. Aug. 1, 4, 13, 16, 21, 29. Sept. 11, 13, 23, 25, 26. Oct. 2, 3, 11, 15, 21, 23, 25, 28, 29, 31. Nov. 1, 2, 5, 11.

During erection on board vessel - -

Total No. of visits 63.

Dates of Examination of principal parts - Cylinders 30. 4. 29 Slides 4- 6. 29 Covers 30. 4. 29

Pistons 14- 5- 29 Piston Rods 14- 5- 29 Connecting rods 14- 5- 29

Crank shaft 14- 5- 29 Thrust shaft 25- 7- 29 Intermediate shafts 25- 7- 29

Tube shaft ✓ Screw shaft 23- 9- 29 Propeller 25- 9- 29

Stern tube 23. 9. 29 Engine and boiler seatings 25- 9. 29 Engines holding down bolts 15- 10. 29

Completion of fitting sea connections 25- 9. 29

Completion of pumping arrangements 28- 10. 29 Boilers fixed 15- 10 29 Engines tried under steam 14- 11- 29

Main boiler safety valves adjusted 5- 11. 29 Thickness of adjusting washers P 5/16 S 5/16. P 9/32 S 11/32 P 11/32 S 11/32

Crank shaft material S Identification Mark LR WGM H34. Thrust shaft material S Identification Mark LR. 1692 WGM

Intermediate shafts, material S Identification Marks LR. 1652, 1666(4) WGM. Tube shaft, material ✓ Identification Mark ✓

Screw shaft, material S Identification Mark LR. 1666 WGM. Steam Pipes, material LW 900 Test pressure 600 Date of Test 23.10.29

Is an installation fitted for burning oil fuel 90 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 90 If so, state name of vessel ✓

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 securely fitted on board, tried under steam & found satisfactory. The machinery is eligible in my opinion for the record of L.M.C. 11-29

It is submitted that this vessel is eligible for THE RECORD. L.M.C. 11-29 CL.

L.S.B. F.D.
1 Nov 5. D.
S.C.F.
D.A. 2/11/29

The Surveys are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ 5 : - : When applied for,
Special ... £ 98 : 4 : 14th NOVEMBER 1929.
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 15th NOVEMBER 1929.

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

Committee's Minute GLASGOW 19 NOV 1929
Assigned + L.M.C. 11.29 70.
CERTIFICATE WRITTEN.