

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

5 JAN 1942

Date of writing Report

19

When handed in at Local Office

12: 1: 10 1/2 Port of

Glasgow

No. in Survey held at
Reg. Book.

38803 on the

Glasgow
S.S. "Umaria"

Date, First Survey 3: 10: 40 Last Survey 5: 1: 4219

(Number of Visits 49)

Gross 6852

Tons Net 4004

Built at Glasgow

By whom built Barclay Curle & Co. Ltd

Yard No. 684.

When built

Engines made at do.

By whom made do

Engine No. 654 } When made 1941.

Boilers made at do

By whom made do

Boiler No. 684. When made 1941.

Registered Horse Power

Owners British India Steam Navigation Co. Ltd

Port belonging to

Nom. Horse Power as per Rule 630

Is Refrigerating Machinery fitted for cargo purposes No.

Is Electric Light fitted y/a

Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Simple Expansion with Bangs Neck Expansion Turbine

Revs. per minute 90.

Dia. of Cylinders 22 1/2 x 34 1/2 x 63"

Length of Stroke 45"

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals as per Rule 13 3/8"

Crank pin dia. 14 1/2"

Crank webs

Mid. length breadth 2 1/2"

Mid. length thickness 8 3/4"

Thick. parallel to axis 8 3/4"

Thick. around eye-hole 6 3/8"

Intermediate Shafts, diameter as per Rule 14"

Thrust shaft, diameter at collars as per Rule 14"

Tube Shafts, diameter as per Rule 14"

Screw Shaft, diameter as per Rule 15 3/8"

Is the tube screw shaft fitted with a continuous liner y/a

Bronze Liners, thickness in way of bushes as per Rule 1/4"

Thickness between bushes as per Rule 1/4"

Is the after end of the liner made watertight in the propeller boss y/a

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner y/a

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 y/a

If two liners are fitted, is the shaft lapped or protected between the liners y/a

Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft y/a

Propeller, dia. 18'-0" Pitch 14'-4" No. of Blades 4

Material Manganese Steel whether Moveable y/a

Total Developed Surface 110 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 y/a

Bilge Pumps worked from the Main Engines, No. 2

Diameter 4"

Stroke 24"

Can one be overhauled while the other is at work y/a

Feed Pumps No. and size 2 @ 9 1/2 x 7 x 21"

Pumps connected to the Main Bilge Line

No. and size 1 @ 10 x 11 x 10; 1 @ 8 x 6 x 5"

Ballast Pumps, No. and size 1 @ 10 x 11 x 10"

Lubricating Oil Pumps, including Spare Pump, No. and size 2 @ 8 x 9 x 18"

Are two independent means arranged for circulating water through the Oil Cooler y/a

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 4 @ 3 1/2; 2 @ 2 1/2; 2 @ 2 1/2

In Pump Room No. 5-1 @ 2 1/2; In Holds, &c. No. 1-2 @ 3; No. 2-2 @ 3; No. 3-2 @ 2 1/2; No. 4-2 @ 3

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 11"

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 5"

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes y/a

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 y/a

Are all Sea Connections fitted direct on the skin of the ship y/a

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 y/a

Are the Overboard Discharges above or below the deep water line Below.

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel y/a

Are the Blow Off Cocks fitted with a spigot and brass covering plate y/a

What Pipes pass through the bunkers y/a

How are they protected y/a

What pipes pass through the deep tanks y/a

Have they been tested as per Rule y/a

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times y/a

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 y/a

MAIN BOILERS, &c.—(Letter for record)

Total Heating Surface of Boilers 83444

Which Boilers are fitted with Forced Draft All.

Which Boilers are fitted with Superheaters None

No. and Description of Boilers 4 Single Ended

Working Pressure 250 lb

IS A REPORT ON MAIN BOILERS NOW FORWARDED? y/a

IS A DONKEY BOILER FITTED? No.

If so, is a report now forwarded? y/a

Can the donkey boiler be used for domestic purposes only y/a

PLANS. Are approved plans forwarded herewith for Shafting 5-6-40. Main Boilers 5-6-40. Auxiliary Boilers

Superheaters y/a General Pumping Arrangements 23-11-40.

Oil fuel Burning Piping Arrangements y/a

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

See List Attached



The foregoing is a correct description.

FOR BARCLAY, CURLE & CO., LTD

Alvando Macneil
Chief Draughtsman

Manufacturer.



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Lloyd's Register
Foundation

W226-0246

If not, state whether, and when, one will be sent?
 Is a Report also sent on the Hull of the Ship?
 NOTE.—The words which do not apply should be deleted.
 55,933. T. (MADE IN ENGLAND.)

1940 Oct: 3.17 (1941) Jan: 22.24 Feb: 5.7.24 Mar: 10.27 Apr: 21.30 May: 12 June: 6.20.26 July 2
 During progress of work in shops - - 3.15.18 Aug: 6.15.18.22.26 Sep: 4.8.12.16.18.22.25 Oct: 1.2.10.13.15.24.28 Nov: 7.10.21 Dec: 4.11
 Dates of Survey while building { During erection on board vessel - - - 13.15.18.26 (1942) Jan: 2.5
 Total No. of visits 49

Dates of Examination of principal parts—Cylinders 16.9.41 Slides 12.9.41 Covers 15.8.41
 Pistons 16.9.41 Piston Rods 16.9.41 Connecting rods 16.9.41
 Crank shaft 8.9.41 Thrust shaft 5.5.41 (BW70) Intermediate shafts 15.8.41
 Tube shaft — Screw shaft 22.9.41 Propeller 22.9.41
 Stern tube 18.9.41 Engine and boiler seatings 8.10.41 Engines holding down bolts 7.11.41
 Completion of fitting sea connections 8.10.41
 Completion of pumping arrangements 18.12.41 Boilers fixed 18.12.41 Engines tried under steam 26.12.41
 Main boiler safety valves adjusted 18.12.41 Thickness of adjusting washers for valves for all 4 boiler $\frac{3}{8}$
 Crank shaft material J.M. Infinitel Identification Mark 10001-6 Thrust shaft material Identification Mark
 Intermediate shafts, material do Identification Marks G.H.M. 16.8.41 Tube shaft, material Identification Mark
 Screw shaft, material do Identification Mark 10003-HAL-1 Steam Pipes, material J.D. Steel Test pressure 150 lb Date of Test
 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 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 —
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with —
 Is this machinery duplicate of a previous case Yes. If so, state name of vessel I.I. ITRIA No. 62382.

General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery has been built under special Survey and in accordance with the Rules. The materials & workmanship are good. It has been efficiently secured in position on board and afterwards tried under working conditions with satisfactory results.

The machinery of this kind is simple, in our opinion, to be classed in the Regular Books with record of + L.M.C. 1.42. T.S. et.

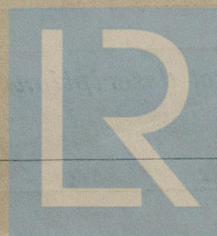
Certificate to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ 6 : - :
 Special ... £ 106 : 10 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 13 JAN 1942
 When received, 19

Committee's Minute GLASGOW 13 JAN 1942

Assigned - 1 L.M.C. 1.42

Performed for A.T. Brown & G.P. Gibberson
 Engineer Surveyor to Lloyd's Register of Shipping.



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