

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 1-12-1937 When handed in at Local Office 30th Dec. 1937 Port of Greenock
 No. in Survey held at Greenock Date, First Survey 14th JUNE 1937 Last Survey 29th DECEMBER 1937
 Reg. Book. S/S "Galakrishna" (Number of Visits) Gross 4990.61 Tons Net 3044.74
 Built at P. & L. Langough By whom built Lithgoun & Co. Ltd. Yard No. 904 When built 1937
 Engines made at Greenock By whom made John & W. Kincaid & Co. Ltd. Engine No. 695 When made 1937
 Boilers made at ditto By whom made ditto Boiler No. 695 When made 1937
 Registered Horse Power Owners Scindia S. N. Co. Ltd. Port belonging to Bombay
 Nom. Horse Power as per Rule 524 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 Simple Expansion Revs. per minute 65
 Dia. of Cylinders 24 1/2" - 41" - 40" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 13.99" as fitted 14 1/4" Crank pin dia. 14 1/4" Crank webs Mid. length breadth shrunk Thickness parallel to axis 8 3/4"
 Intermediate Shafts, diameter as per Rule 13.3" as fitted 13 5/8" Thrust shaft, diameter at collars as per Rule 13.99" as fitted 14 1/4"
 Tube Shafts, diameter as per Rule 14.79" as fitted 16 3/8" Is the tube shaft fitted with a continuous liner Yes
 Screw Shaft, diameter as per Rule 14.79" as fitted 16 3/8" Is the screw shaft fitted with a continuous liner Yes
 Bronze Liners, thickness in way of bushes as per Rule 25/32" as fitted 7/8" Thickness between bushes as per Rule 19/32" as fitted 21/32" 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 junctions made by fusion through the whole thickness of the liner —
 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
 If so, state type — Length of Bearing in Stern Bush next to and supporting propeller 5.2"
 Propeller, dia. 14.6" Pitch 18.2" No. of Blades 4 Material Brown Whether Movable Yes Total Developed Surface 84 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 4 1/2" Stroke 24" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4 1/2" Stroke 24" Can one be overhauled while the other is at work Yes
 Feed Pumps No. and size 2, 4" x 9" x 21" Pumps connected to the Main Bilge Line No. and size 2 (8" x 7" x 18") (4" x 6" x 15")
 How driven Steam How driven Steam
 Ballast Pumps, No. and size one 8" x 4" x 18" 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. 3" Tunnel well 1. 2 1/4"
 In Pump Room — In Holds, &c. 7' 0" 1. 2' 3" 7' 0" 2. 2' 3 1/2" 7' 0" 3. 2' 3" 7' 0" 4. 2' 3"
 Thrust Run 1-2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size one 8" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 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 Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks No
 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 Below
 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 Bilge Suction How are they protected Wood casing
 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 UPPER PLATFORM

MAIN BOILERS, &c.—(Letter for record R.) Total Heating Surface of Boilers 4563 sq. ft.
 Is Forced Draft fitted Yes No. and Description of Boilers 3 Single ended Working Pressure 220
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes
 Is the donkey boiler intended to be used for domestic purposes only No
 PLANS. Are approved plans forwarded herewith for Shafting Yes Main Boilers Yes Auxiliary Boilers — Donkey Boilers Yes
 (If not state date of approval)
 Superheaters — General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements —

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes
 State the principal additional spare gear supplied 2 Spare Bilge Propeller Sealer

The foregoing is a correct description,
 For JOHN G. KINCAID & CO. LIMITED.

Director. Manufacturer.



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Lloyd's Register
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(1934) JUNE 11 JULY 13-14-16-19-21-26-29 AUG 2-5-13-17-19-23-24-27-31 SEPT 2-8-9-10-17-21-23-24-28 OCT 1-6-8-13-18-20-21-22-25-26
During progress of work in shops - - 27-29 NOV 1-3-4-5-7-8-10-12-17-19-24-26 DEC 9-29
Dates of Survey while building
During erection on board vessel - - -
Total No. of visits 52.

Dates of Examination of principal parts—Cylinders 1- 10- 37 Slides 20- 10- 37 Covers 1- 10- 37
Pistons 26- 10 37 Piston Rods 26- 10- 37 Connecting rods 18- 10- 37
Crank shaft 24- 9. 37 Thrust shaft 26- 10 37 Intermediate shafts 8- 11- 37
Tube shaft ✓ Screw shaft 24. 10- 37 Propeller 24. 10 37
Stern tube 24. 10- 37 Engine and boiler seatings 26- 10 37 Engines holding down bolts 26- 11- 37
Completion of fitting sea connections 4- 11- 37
Completion of pumping arrangements 9. 12- 37 Boilers fixed 26- 11- 37 Engines tried under steam 29- 12- 37
Main boiler safety valves adjusted 9. 12- 37 Thickness of adjusting washers PV 9/32 V 9/32 PV 1/4 SV 9/32 PV 1/4 SV 9/32 FV 5/16 AV 1/32
Crank shaft material S Identification Mark LR YH20 WGM Thrust shaft material S Identification Mark LR YH20 WGM
Intermediate shafts, material S Identification Marks LR YH20 WGM Tube shaft, material ✓ Identification Mark —
Screw shaft, material S Identification Mark LR YH20 WGM Steam Pipes, material S Test pressure 660 Date of Test 26- 11- 37
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 No 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 No If so, state name of vessel S/S Jalaganga Arkh/11/20/37

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 have been securely fitted on board, tried under steam & found satisfactory.
The Machinery is eligible in my opinion for the record of LMC. 12- 37

The amount of Entry Fee ... £ 6 : - : When applied for,
Special ... £ 10 : 4 : 30th Dec. 1934
Donkey Boiler Fee ... £ 6 : 3 :
Travelling Expenses (if any) £ : : When received,
Jan 5 1938

Committee's Minute GLASGOW 11 JAN 1938

Assigned + LMC 12/37

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



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