

REPORT ON MACHINERY.

No. 16,842

Received at London Office

Date of writing Report 19... When handed in at Local Office 19... Port of Leith 23 FEB 1926

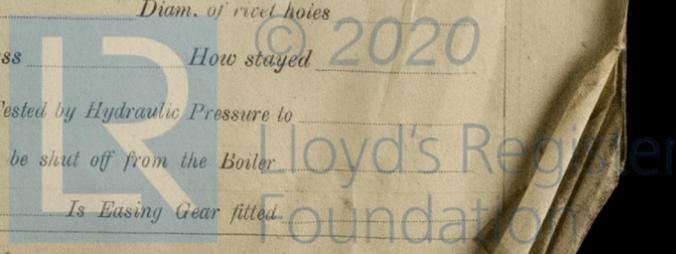
No. in Survey held at Leith Date, First Survey 12-5-25 Last Survey 12-2-26 19...
 Reg. Book. on the Steel Screw Propeller Barge "RUKAMAYATI" (Number of Visits 34) Gross 411-55
 Master Built at Leith By whom built Henry Robt Co (No 35) Tons { Net }
 Engines made at Leith By whom made J. Cran & Roseville Ltd (No 246) When built
 Boilers made at Glasgow By whom made Jimmies Bros Dundee when made 1925
 Registered Horse Power Owners H.H. Mahavoo of Kutch, Bhuj, India Port belonging to Bombay
 Nom. Horse Power as per Section 28 60 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Compound No. of Cylinders 2 No. of Cranks 2
 Dia. of Cylinders 15" 30" Length of Stroke 20" Revs. per minute 135 Dia. of Screw shaft 6-6 Material of screw shaft Steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube no Is the after end of the liner made water tight in the propeller boss oil S.S. design gland If the liner is in more than one length are the joints burned ✓ 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 ✓
 Dia. of Tunnel shaft 5.75.89 Dia. of Crank shaft journals 5.98.6.19 Length of stern bush 2-3"
 collars 6 1/4" Dia. of screw 7-6" Pitch of Screw 8-0" Dia. of Crank pin 6 1/4" Size of Crank webs 4x12 1/4" Dia. of thrust shaft under
 No. of Feed pumps 2 Diameter of ditto 5x3 1/2 x 8" SINGLE No. of Blades 4 State whether moveable no Total surface 22 sq ft
 No. of Bilge pumps 2 Diameter of ditto 4" Stroke 7" Can one be overhauled while the other is at work Independent
 No. of Donkey Engines One Sizes of Pumps 5x5x6 DUPLEX No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 1 @ 2", 2 @ 2" (2 Bilge suction in E.R. @ 2") In Holds, &c. 3 @ 2"
 No. of Bilge Injections 1 sizes 3 1/2" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes, 2 1/2"
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible
 Are all connections with the sea direct on the skin of the ship yes Are they 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 Discharge Pipes above or below the deep water line Both
 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 are carried through the bunkers Ann. steam & exhaust How are they protected Steel casing
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 Is the Screw Shaft Tunnel watertight no Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Jimmies David Colville & Co Ltd
 Total Heating Surface of Boilers 1317.5 Is Forced Draft fitted no No. and Description of Boilers one Single Ended
 Working Pressure 130 lbs Tested by hydraulic pressure to 245 lbs Date of test 21-8-25 No. of Certificate 16913
 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to each boiler
 Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
 Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 Per centages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell
 Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 Length of plain part Thickness of plates Description of longitudinal joint No. of strengthening rings
 Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
 Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 thickness of girder at center Length as per rule Distance apart Number and pitch of stays in each
 Working pressure by rules Steam dome: description of joint to shell % of strength of joint
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

002938-002946-0214



IS A DONKEY BOILER FITTED? *No* ✓

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:—

- 2 Connecting rod bolts and nuts (Top end) ✓
- 2 Connecting rod bolts and nuts (Bottom end) ✓
- 2 Main bearing bolts and nuts ✓
- 1 set of coupling bolts ✓
- 1 set of Air, feed and bilge pump valves ✓
- 1 set of piston rings H.P. & L.P. cylinders. 1 set check valves ✓

A quantity of assorted bolts & nuts and iron of various sizes

The foregoing is a correct description,
HENRY ROBB, LIMITED.

Robert Crawford Director, Manufacturer.

Dates of Survey while building

During progress of work in shops --	1925 May 12.16 June 4.5.13.24.30 July 7.21 Aug. 12.22.31 Sept. 15.25 Oct. 12.21.22 Nov. 9.12
	Dec. 1.10.15.
During erection on board vessel ---	1925 Dec. 18. 21.25.30. 1926 Jan. 5.11.18.20.21.22 Feb. 2.12
Total No. of visits	34

Is the approved plan of main boiler forwarded herewith *yes* ✓
" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders 21.7.25 Slides 21.7.25 Covers 22.8.25 Pistons 22.8.25 Rods 21.7.25
Connecting rods 21.7.25 Crank shaft 21.7.25 Thrust shaft 22.8.25 Tunnel shafts ✓ Screw shaft 12.11.25 Propeller 12.11.25
Stern tube 12.11.25 Steam pipes tested 20-1-26 Engine and boiler seatings 10-12-25 Engines holding down bolts 11-1-26
Completion of pumping arrangements 22-1-26 Boilers fixed 11-1-26 Engines tried under steam 22-1-26
Completion of fitting sea connections 12-12-25 Stern tube 5-12-25 Screw shaft and propeller 12-12-25
Main boiler safety valves adjusted 21-1-26 Thickness of adjusting washers P.Y. 3/8 S.Y. 3/8
Material of Crank shaft *Steel* Identification Mark on Do. 1176 Material of Thrust shaft *Steel* Identification Mark on Do. 1230
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Steel* Identification Marks on Do. 1231
Material of Steam Pipes *solid drawn copper* ✓ Test pressure 260 lbs. ✓
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 Section 49 of the Rules been complied with? ✓
Is this machinery duplicate of a previous case? *no* ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c. The Machinery of this vessel has been built under special survey in accordance with the Rules; the materials and workmanship are sound & good. The engines, boiler & auxiliaries were examined under working conditions, safety valves adjusted to 130 lb per sq inch. and all found satisfactory. The machinery is now in a good and safe working condition and renders the vessel eligible in our opinion to have the notation of *LMC 2.26 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 2.26.06.

A. T. Thomas
03/2/26

A. T. Thomas *A. T. Thomas*
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee	£ 2 : 0 :	When applied for.
Special	£ 9 : 0 :	22-2-1926
Donkey Boiler Fee	£	When received.
Travelling Expenses (if any)	£ 1 :	1/3/26

Committee's Minute

Assigned

FRI. 26 FEB 1926

+ L.M.C. 2.26
O.G.



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