

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 2 MAY 1928

of writing Report 19 When handed in at Local Office 28.4.28 19 Port of Glasgow
 in Survey held at Glasgow Date, First Survey 16.9.27 Last Survey 20.4.1928
 Book. on the SCREW STEAMER "MIRANI" (Number of Visits 44)
 at Glasgow. By whom built Glasgow Dockyard & Co. Ltd. Yard No. 415 Tons { Gross 739
 ines made at Glasgow By whom made McKie & Baxter Ltd. Engine No. 1209 when made 1928
 lers made at Glasgow By whom made Palmer S.D. & I.C. Ltd. Boiler No. 1087 when made 1928.
 istered Horse Power - Owners Brown, Philip & Co. Ltd. Port belonging to London
 n. Horse Power as per Rule 100 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 ide for which Vessel is intended Australian

GINES, &c.—Description of Engines Triple Expansion Revs. per minute 125
 v. of Cylinders 12 1/2 - 21 - 34 Length of Stroke 24 No. of Cylinders 3 No. of Cranks 3
 ank shaft, dia. of journals as per Rule 6.819 Crank pin dia. 7 Crank webs Mid. length breadth 13 1/4 Thickness parallel to axis 4 7/8
 as fitted 7 Mid. length thickness 47/16 shrunk Thickness around eye-hole 3 1/8
 ermediate Shafts, diameter as per Rule 6.495 Thrust shaft, diameter at collars as per Rule 6.819
 as fitted 6 7/8 Is the tube screw shaft fitted with a continuous liner Yes
 be Shafts, diameter as per Rule 7.225 Is the tube screw shaft fitted with a continuous liner Yes
 as fitted 7 7/8
 onze Liners, thickness in way of bushes as per Rule 5/5 Thickness between bushes as per Rule 3/32 Is the after end of the liner made watertight in the
 as fitted 9/16 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner In joints
 veller boss Yes 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
 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
 of the tube shaft No Length of Bearing in Stern Bush next to and supporting propeller 30 1/2
 opeller, dia. 8'-9" Pitch 9'-6" No. of Blades 4 Material Bronze whether Moveable No Total Developed Surface 28.5 sq. feet
 ed Pumps worked from the Main Engines, No. 2 Diameter 2 1/4 Stroke 12 Can one be overhauled while the other is at work Yes
 ge Pumps worked from the Main Engines, No. 2 Diameter 2 1/4 Stroke 12 Can one be overhauled while the other is at work Yes
 ed { No. and size 1. Main 6 1/2 x 4 x 1/2 Pumps connected to the { No. and size 1. 6 x 6 x 6 Dup, 1. 5 x 3 1/2 x 6 Dup.
 mps { How driven 5 Steam Main Bilge Line { How driven 5 Steam
 ast Pumps, No. and size 1. 6 x 6 x 6 Dup. Lubricating Oil Pumps, including Spare Pump, No. and size 4
 two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary
 e Pumps;—In Engine and Boiler Room Eng. Room 3-2 1/2" Blk. Room 2-2 1/2" Tunnel Well 1-2 1/2" Bore.
 olds, &c. Tunnel Hall 2-2 1/2" aft Hall 3-2 1/2" Bore.

in Water Circulating Pump Direct Bilge Suctions, No. and size 1-4 Independent Power Pump Direct Suctions to the Engine Room Bilges,
 and size 1-2 3/4 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes
 e 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
 all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Yes
 e they sized 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 D.W.L.
 e 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
 at Pipes pass through the bunkers. Bilge pipes to forward space How are they protected Canvas.
 at pipes pass through the deep tanks Have they been tested as per Rule Yes
 e all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 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
 apartment to another Yes Is the Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top Platform E.R.

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 1995 sq. ft.
 Forced Draft fitted No No. and Description of Boilers One Cyl. Single End Working Pressure 200 lb. sq. in.
 A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 A DONKEY BOILER FITTED? Yes If so, is a report now forwarded? Yes
 LANS. Are approved plans forwarded herewith for Shafting 24.8.27 Main Boilers Yes Auxiliary Boilers No Donkey Boilers Yes
 (If not state date of approval) General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements —

PARE GEAR. State the articles supplied:—2 Top and bottom nuts, 2 bottom nut with, 2 main
 bearing nuts, set of coupling bolts & nuts, 1 set each, feed & bilge pump rollers,
 1 main & 1 donkey feed roller roller, 6 camshaft rollers, 6 bottom rollers, 1 propeller
 shaft, 1 propeller, 1 crankshaft, mounted bolts & nuts, iron of various sizes.

The foregoing is a correct description.

McKie & Baxter Ltd.
 J. R. Roskennie

Manufacturer.



© 2020

Lloyd's Register
 Foundation

1927 Sep 16 Oct. 13-24-26 Nov. 1-3-8-11-16-22-28 Dec 1-6-13-21-27-30 (1928) Jan 13-18-24-27-31 Feb 8-9-13
During progress of work in shops -- Mar 1-2-6-7-8-13-16-19-23-26-28-30 Apr 3-10-11-19-20
Dates of Survey while building During erection on board vessel --
Total No. of visits 44

Dates of Examination of principal parts—Cylinders 13. 1. 28 Slides 24. 1. 28 Covers 13. 1. 28
Pistons 24. 1. 28 Piston Rods 27. 1. 28 Connecting rods 27. 4. 28
Crank shaft 21. 12. 27. Thrust shaft 21. 12. 27. Intermediate shafts 21. 12. 27.
Tube shaft None Screw shaft 28. 11. 27. Propeller 1. 12. 27.
Stern tube 13. 2. 28 Engine and boiler seatings 9. 2. 28 Engines holding down bolts 28. 3. 28
Completion of fitting sea connections 6. 3. 28
Completion of pumping arrangements 3. 4. 28 Boilers fixed 28. 3. 28 Engines tried under steam 19. 4. 28
Main boiler safety valves adjusted 30. 3. 28 Thickness of adjusting washers Pv. 9/32 Sv 9/32
Crank shaft material S. M. S. Identification Mark 1209 W.L. Thrust shaft material S. M. S. Identification Mark 2152-6
Intermediate shafts, material S. M. S. Identification Marks 2151-607 A.F. Tube shaft, material None Identification Mark —
Screw shaft, material S. M. S. Identification Mark A.F. Steam Pipes, material Copper Test pressure 400 lb Date of Test 19. 3. 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 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 —
Is this machinery duplicate of a previous case Yes If so, state name of vessel 'MALAKE'

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has been constructed under Special Survey in accordance with the Society's Rules, together with the main and donkey boilers, it has been fitted on board the vessel in a satisfactory manner and found satisfactory under working conditions.
The vessel is eligible, in our opinion, to have record + L.M.C. 4. 28

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 4. 28 etc.

W.L.
3/5/28
J.L.

A.B.
28/4/28

Glasgow

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 ... £ 3 : 0 :
3/5 Special ... £ 15 : 0 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 1-9-0 :
When applied for, 30/4/28
When received, 25.5.28
W. Lane, H.L. Sutherland.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 1 MAY 1928

Assigned + L.M.C. 4. 28.

CERTIFICATE WRITTEN.



© 2020 Lloyd's Register Foundation