

REPORT ON MACHINERY.

No. 10730

Received at London Office WED. 8 JUN. 1921

of writing Report 6.6.21 19 When handed in at Local Office 7.6.21 in Port of Bristol
 in Survey held at Brimscombe Date, First Survey 28th May 1920 Last Survey 30th May 1921
 g. Book. on the Engines No. 1446 (Vessel building at Quempoy by Messrs Abdala & Mitchell)
 aster Built at Quempoy By whom built Messrs Abdala & Mitchell
 gines made at Brimscombe By whom made Messrs Abdala & Mitchell
 ilters made at By whom made
 gistered Horse Power 76-27 78 Owners
 m. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

GINES, &c.—Description of Engines Triple Expansion Surface condensing No. of Cylinders 3 No. of Cranks 3
 a. of Cylinders 12 x 20 x 34 Length of Stroke 23 Revs. per minute Dia. of Screw shaft as per rule 6.852 Material of screw shaft as fitted 7/2
 the screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
 the propeller boss 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
 ers are fitted, is the shaft lapped or protected between the liners Length of stern bush 2'-6 3/8"
 ia. of Tunnel shaft as per rule 6.118 Dia. of Crank shaft journals as per rule 6.42 Dia. of Crank pin 6 3/4 Size of Crank webs 4 1/4 x 10 1/4 Dia. of thrust shaft under
 lars 6 3/4 Dia. of screw 8'-4" Pitch of Screw 11'-6" No. of Blades 4 State whether moveable No Total surface 29 #
 o. of Feed pumps Two Diameter of ditto 2 3/8 Stroke 10 1/2 Can one be overhauled while the other is at work 3/4
 o. of Bilge pumps Two Diameter of ditto 2 3/8 Stroke 10 1/2 Can one be overhauled while the other is at work 3/4
 o. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room In Holds, &c.

o. of Bilge Injections One sizes 3" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size
 re all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 re all connections with the sea direct on the skin of the ship Are they Valves or Cocks
 re they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line
 re they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
 That pipes are carried through the bunkers How are they protected
 re all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 re the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
 the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

ILERS, &c.—(Letter for record 1443) Manufacturers of Steel
 otal Heating Surface of Boilers 14000 Is Forced Draft fitted No. and Description of Boilers
 orking Pressure 180 Tested by hydraulic pressure to Date of test No. of Certificate
 an each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
 ch boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 mallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
 hickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 ng. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 er centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 ize of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 ength of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 orking pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 itch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
 aterial of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 aterial Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 rea at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 hickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 iameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 itch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 ickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each
 orking pressure by rules Steam dome: description of joint to shell % of strength of joint
 iameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 itch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

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

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

J. P. ISAAC J. ABDELA & MITCHELL, L.L.

Frederick Weiss

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

1920. May 25th July 5.9 Sept 13 Oct 7.25.17 Nov. 17 Dec 3 1921 Jan 6 Feb 4 April 7 May 30th

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders *4/2/21* Slides *17/11/20* Covers *4.2.21* Pistons *17/11/20* Rods *17/11/20*

Connecting rods *7/1/20* Crank shaft *29.4.21* Thrust shaft *29.4.21* Tunnel shafts *29.4.21* Screw shaft *29.4.21* Propeller

Stern tube *29.4.21* Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft *Steel* Identification Mark on Do. *LLOYD'S 5112 J.T.W.* Material of Thrust shaft *Steel* Identification Mark on Do. *LLOYD'S 5112 J.T.W.*

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do. *LLOYD'S 5112 J.T.W.*

Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel 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 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 of this Society. The Propeller shaft & Thrust shaft have been sent completed from Forge to Luamfory. The Machinery on completion of fitting into vessel will be eligible for record F.L.M.C. 5-3

Certificate (if required) 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 ... £ 2 : 0
2/5 of Special £18-1-0 ... £ 7 : 4
Donkey Boiler Fee ... £
Travelling Expenses (if any) £ 2 : 5 : 6

When applied for.

7th June 1921

When received.

30th June 1922

Committee's Minute FRI. 21 MAR. 1924

Assigned

G.A. Dyden Toyns
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation