

REPORT ON MACHINERY.

Received at London Office TUE. 22 NOV. 1921

Date of writing Report 21/11/21 When handed in at Local Office 21/11/21 Port of Bristol

No. in Survey held at Brimscombe Date, First Survey May 20. 1920 Last Survey No 21 1921

Reg. Book. on the Abaula Mitchell N1445. S. Shell Men IV.

Master Built at Queensferry By whom built Tons } Gross } Net } When built

Engines made at Brimscombe By whom made Abaula Mitchell when made 1921

Boilers made a By whom made when made

Registered Owners Port belonging to

n 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Inverted Compound No. of Cylinders Two No. of Cranks 2

Dia. of Cylinders 15 1/2 + 32 Length of Stroke 24 Revs. per minute 110 Dia. of Screw shaft as per rule 7 1/4 Material of screw shaft as fitted Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

in the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 Yes If two

liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 28

Dia. of Tunnel shaft as per rule 6 7/8 Dia. of Crank shaft journals as per rule 6 7/8 Dia. of Crank pin 6 7/8 Size of Crank webs 13 1/2 x 5 Dia. of thrust shaft under collars 6 7/8

Dia. of screw 8-0 Pitch of Screw 9-3 No. of Blades 4 State whether moceable No Total surface 29 #

No. of Feed pumps 1 Diameter of ditto 2 3/8 Stroke 10 1/2 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 1 Diameter of ditto 2 3/8 Stroke 10 1/2 Can one be overhauled while the other is at work Yes

No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room In Holds, &c.

No. of Bilge Injections / sizes 3 Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size

Are 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

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks

Are 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

Are 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

What pipes are carried through the bunkers How are they protected

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

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

OILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers

Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate

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 rivets..... 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 top..... Thickness of plates crown..... 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 centre 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

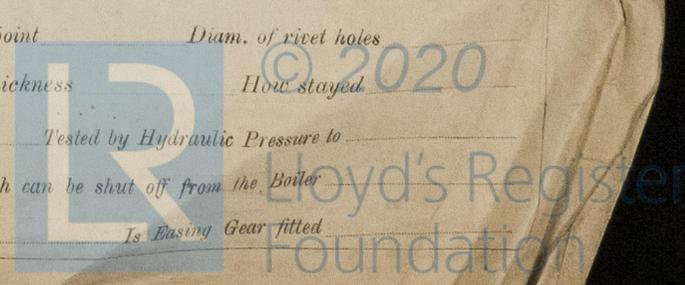
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. 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



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Isaac J. Abdala & Mitchell Ltd

Manufacturer.

Dates of Survey while building: During progress of work in shops (May 20, 28, July 5, 9, 13, Sept 13, Oct 7, Nov 17, Dec 3, Jan 6, Feb 14, Apr 6, 21, May 30, July 4, Sept 2, 1920); During erection on board vessel (Nov 21, 1921); Total No. of visits

Is the approved plan of main boiler forwarded herewith

Is the approved plan of main boiler forwarded herewith

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 30.5.21 Slides 30.5.21 Covers 30.5.21 Pistons 4.7.21 Rods 4.7.21

Connecting rods 4.7.21 Crank shaft 4.7.21 Thrust shaft Tunnel shafts Screw shaft Propeller

Stern tube 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 Identification Mark on Do. Material of Thrust shaft Identification Mark on Do.

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.

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 Yes If so, state name of vessel Abdala Mitchell 1443

General Remarks (State quality of workmanship, opinions as to class, &c. These engines have been built

under Special Survey, have been sent to Queen Mary & the Julia & M. Abdala Mitchell N 412. The manuals & workman's up as per rule to be signed

in my opinion for use of T.M.C. with date when completed. The propeller shaft & thrust shaft have been sent away from Mersey

The amount of Entry Fee ... £ 2 : 00 When applied for, 2/5 of £17-2-0 Special ... £ 4 : 16 21/11/1921 Donkey Boiler Fee ... £ : : When received, 30/10/22 Travelling Expenses (if any) £ 7 : 16 3

John W. Dwyne, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Com Assign

