

REPORT ON MACHINERY.

No. 44064

Received at London Office

- 3 DEC 1924

Date of writing Report Sept 15th 1924 When handed in at Local Office 20-9-24 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 6 Last Survey 10th Sept 1924
Reg. Book. on the S/S. FORESTHILL (Number of Visits 1) Tons ^{Gross} 1600 _{Net} 892

Master _____ Built at Glasgow By whom built Barclay Curle & Co Ltd When built 1924

Engines made at Glenoch By whom made J. G. Kincaid & Co Ltd when made 1924

Boilers made at _____ By whom made _____ when made _____

Registered Horse Power _____ Owners Mam Mesner & Co Port belonging to London

Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines

Dia. of Cylinders _____ **Length of Stroke** _____ **Revs. per minute** _____ **Dia. of Screw shaft** ^{as per rule} _____ **Material of** _____ _{as fitted} _____ **screw shaft** _____

Is 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 in 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 liners are fitted, is the shaft lapped or protected between the liners _____ Length of stern bush _____

Dia. of Tunnel shaft ^{as per rule} _____ **Dia. of Crank shaft journals** ^{as per rule} _____ **Dia. of Crank pin** _____ **Size of Crank webs** _____ **Dia. of thrust shaft under collars** _____ **Dia. of screw** _____ **Pitch of Screw** _____ **No. of Blades** _____ **State whether moceable** _____ **Total surface** _____

No. of Feed pumps _____ **Diameter of ditto** _____ **Stroke** _____ **Can one be overhauled while the other is at work** _____

No. of Bilge pumps _____ **Diameter of ditto** _____ **Stroke** _____ **Can one be overhauled while the other is at work** _____

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** _____ **Connected to condenser, or to circulating 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 Yes ✓ Are they Valves or Cocks Valves and 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 Yes ✓

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 _____

BOILERS, &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** _____ _{plate} _____

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** _____ _{bottom} _____

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 _____

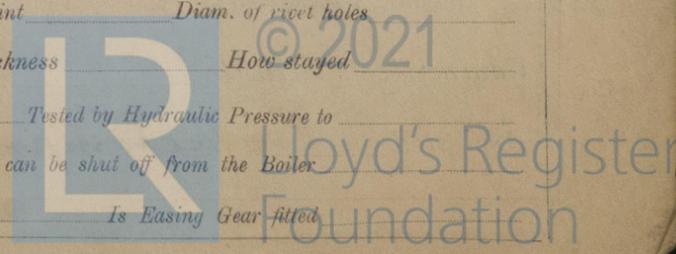
Date of Test _____

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 _____



W558-0033

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - - 1924 Sep 10
During erection on board vessel - - -
Total No. of visits 1.

Is the approved plan of main boiler forwarded herewith

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

Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings 10/9/24. Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections 10/9/24 Stern tube 10/9/24. 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 If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

Stern tube, sea cocks and valves fitted, examined and found in order.

The vessel has proceeded to Guinock, where it is stated, the engines and boilers will be fitted onboard.

Table with columns for fee type (Entry Fee, Special, Donkey Boiler Fee, Travelling Expenses), amount in £, and when applied/received.

J. F. Nicholas, Engineer Surveyor to Lloyd's Register of Shipping.

GLASGOW 2-DEC 1924

Committee's Minute

Assigned See accompanying machinery report.



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