

REPORT ON MACHINERY.

No. 15,581.

Received at London Office

Date of writing Report 3/5/19 When handed in at Local Office Leith 19 19 Port of Leith

No. in Survey held at Leith Date, First Survey 12/3/15 Last Survey 12/4/19 19 19

Reg. Book. S.S. "Felixstone" (Number of Visits 54)

Master Leith Built at Leith By whom built Hawthornes & Co. Tons } Gross }
Net }
When built 1919

Engines made at Leith By whom made Hawthornes & Co. when made 1919

Boilers made at Newcastle By whom made Hawthornes & Co. when made 1919

Registered Horse Power 248 Owners W. Eastern & Co. Port belonging to Harwich.

Nom. Horse Power as per Section 28 248 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Inverted No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 21.33.54 Length of Stroke 36 Revs. per minute 100 Dia. of Screw shaft 11.1 as per rule 11.6 as fitted Material of screw shaft I

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 ✓ 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 47 1/2

Dia. of Tunnel shaft 10.3 as per rule 10.6 as fitted Dia. of Crank shaft journals 10.8 as per rule 11.27 as fitted Dia. of Crank pin 11 3/8 Size of Crank web 16 1/2 x 7 1/4 Dia. of thrust shaft under

collars 11 3/8 Dia. of screw 12-6 Pitch of Screw 15-6 No. of Blades 4 State whether moveable yes Total surface 52 1/2

No. of Feed pumps 2 Diameter of ditto 3 1/2 Stroke 18" Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 18" Can one be overhauled while the other is at work yes

No. of Donkey Engines 2 Sizes of Pumps 7" x 4 1/2" x 8" No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 2-2", 1-2 1/4" 7" x 7" x 8" In Holds, &c. Forehold 2-2", after hold 2-2", 1-2 1/4"

Tunnel with 2 1/4"

No. of Bilge Injections 1 sizes 5" Connected to condenser, or to circulating pump pump 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 none

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 above

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 Bilge only How are they protected wood covering

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 yes Is it fitted with a watertight door yes worked from upper deck

BOILERS, &c.—(Letter for record (S)) Manufacturers of Steel 2.S.B.

Total Heating Surface of Boilers 3620 Is Forced Draft fitted yes No. and Description of Boilers 2 return tube SE.

Working Pressure 190 lb. Tested by hydraulic pressure to 540 Date of test 2.5.19 No. of Certificate 540

Can each boiler be worked separately yes Area of fire grate in each boiler 540 No. and Description of Safety Valves to yes

h boiler 2 direct opening Area of each valve 8.29 Pressure to which they are adjusted 190 lb. Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 7 1/2 Mean dia. of boilers 7 1/2 Length 7 1/2 Material of shell plates HKd

Thickness Range of tensile strength Are the shell plates welded or flanged no Descrip. of riveting: cir. seams yes

g. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Percentages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell yes

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

of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules yes

Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space: yes

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

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 yes

Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

h across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

ness 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 yes

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

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

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to yes

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 yes

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yes

2 no connecting rod top and bottom end bolts and nuts, no main bearing bolts nuts, a set of coupling bolts nuts, a set of pusher bolts nuts, a quantity of assorted bolts and nuts, and iron granular sizes

Manufacturer.

Is the approved plan of main boiler forwarded herewith

Is this machinery duplicate of a previous case no If so, state name of vessel of

This machinery has been built under special survey, and the materials and workmanship are good. The main and donkey boilers have been efficiently fitted on board vessel and in our opinion she is eligible for rotation of +MC 4-19 Elec. light.

It is submitted that
this vessel is eligible for
THE RECORD, + LMC 4.19. F.D.

9999 1000
6/5/19

L. n. lutea + *C. m. m.*

~~Engineer Surveyor to Lloyd's Register of Shipping~~ Tra

TUE. MAY. 13. 1919

+ L. MC 4:19 748

WITNESSES
WRITTEN

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Foundation