

REPORT ON MACHINERY.

No. 385 1/4.

WED. 12 MAR. 1919

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of Glasgow

Date, First Survey 4th Oct. 1918. Last Survey 28th Feb. 1919

(Number of Visits 218)

Tons { Gross 3080
Net 1857

When built

By whom built 8 Finch & Co (No 364)

when made 1919

By whom made do Rowan & Co (No 712)

when made

By whom made Babcock & Wilcox (No)

Port belonging to

Registered Horse Power

Owners

Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

LINES, &c.—Description of Engines

Triple Expansion

No. of Cylinders 3

No. of Cranks 3

of Cylinders 25-41-68

Length of Stroke 45

Revs. per minute

Dia. of Screw shaft

as per rule 13.4

Material of Iron

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

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

in the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

yes

If two

are fitted, is the shaft lapped or protected between the liners

Length of stern bush 5-0

of Tunnel shaft

as per rule 12.4

Dia. of Crank shaft journals

as per rule 13.02

Dia. of Crank pin 13 1/4

Size of Crank webs 24 1/2

Dia. of thrust shaft under

3 1/4

Dia. of screw 16-0

Pitch of Screw 16-3

No. of Blades 4

State whether moveable

Total surface 75 ft

Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Bilge pumps

Diameter of ditto 3 1/2

Stroke 24

Can one be overhauled while the other is at work

Donkey Engines

Sizes of Pumps

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

In Holds, &c.

Engine Room

Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room & size

the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

connections with the sea direct on the skin of the ship

Are they Valves or Cocks

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

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

pipes are carried through the bunkers

How are they protected

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

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

of examination of completion of fitting of Sea Connections

of Stern Tube

Screw shaft and Propeller

Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

ERS, &c.—(Letter for record)

Manufacturers of Steel

See separate Gls Rpt.

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

each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Mean dia. of boilers

Length

Material of shell plates

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Working pressure of shell by rules

Size of manhole in shell

Material

Outside diameter

No. and Description of Furnaces in each boiler

No. of strengthening rings

Thickness of plates

Description of longitudinal joint

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Working pressure of furnace by the rules

If stays are fitted with nuts or riveted heads

Working pressure by rules

End plates in steam space:

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of stays

Pitch of stays

How are stays secured

Working pressure by rules

Material of Front plates at bottom

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Working pressure of plate by rules

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Working pressures by rules

Girders to Chamber tops: Material

Depth and

Length as per rule

Distance apart

Number and pitch of stays in each

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

Description of longitudinal joint

Diam. of rivet

Material of flue plates

Thickness

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

End plates: Thickness

How stayed

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Area of safety valves to superheater

Are they fitted with easing gear

Working pressure of end plates

3-1919.

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Lloyd's Register

FWS20-0159

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. Description When made Where fixed
Made at By whom made No. of Certificate Fire grate area Description of
Working pressure tested by hydraulic pressure to Date of test Pressure to which they are adjusted Date of adjustment
Valves No. of Safety Valves Area of each Pressure to which they are adjusted Dia. of donkey boiler Length
If fitted with easing gear If steam from main boilers can enter the donkey boiler Descrip. of riveting long. seams
Material of shell plates Thickness Range of tensile strength Per centage of strength of joint Rivets
Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Dia. of stays
Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays
Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
Working pressure of furnace by rules Thickness of furnace crown plates Radius of do. Stayed by
Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

David Rowan & Co. Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits 21.
Is the approved plan of main boiler forwarded herewith
" " " donkey " " "

Dates of Examination of principal parts—Cylinders 4.12.18 Slides 27.1.19 Covers 4.10.18 Pistons 4.10.18 Rods 4.12.18
Connecting rods 27.1.19 Crank shaft 3.12.18 Thrust shaft 4.12.18 Tunnel shafts 25.11.18 Screw shaft 13.1.19 Propeller 13.1.19
Stern tube 16.1.19 Steam pipes tested Engine and boiler seatings Engines holding down bolts
Completion of pumping arrangements Boilers fixed Engines tried under steam
Main boiler safety valves adjusted Thickness of adjusting washers
Material of Crank shaft Steel Identification Mark on Do. 712 Material of Thrust shaft Steel Identification Mark on Do. 224
Material of Tunnel shafts Iron Identification Marks on Do. 224 HC Material of Screw shafts Iron Identification Marks on Do. 224
Material of Steam Pipes Test pressure

General Remarks (State quality of workmanship, opinions as to class, &c.) The Engines have been built under Special Survey, the materials and workmanship are good. The Engines have been forwarded to Messrs. & Trenchard & Co. Chepstow

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 .. £ : : When applied for, 19
Special .. £ 34 : 9 :
Donkey Boiler Fee .. £ : :
Travelling Expenses (if any) £ : :
When received, 24th 19

Committee's Minute

GLASGOW

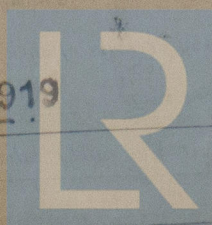
11 MAR 1919

Assigned

TRANSMIT TO LONDON

TUE 30 DEC. 1919

Engineer Surveyor to Lloyd's Register of British & Foreign Ships



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