

Rpt. 4.

REPORT ON MACHINERY.

No. 18387

TUE. MAY. 25 1920

Date of writing Report

19

When handed in at Local Office

19

Port of NEW YORK, N.Y.

No. in Survey held at BROOKLYN N.Y.

Date, First Survey

Last Survey

19

Reg. Book.

20767 on the S/S "FORT VICTORIA" EX. "WILLOCHRA"

(Number of Visits)

Master

Built at

DALMUIR

By whom built

W^M BEARDMORE & CO. LTD.

Tons { Gross 7784

Net 4532

When built 1913

Engines made at

DALMUIR

By whom made

W^M BEARDMORE & CO. LTD.

when made 1913

Boilers made at

By whom made

when made 1913

Registered Horse Power I.H.P. 3900

Owners

FURNESS BERMUDA LINE.

Port belonging to LIVERPOOL.

Nom. Horse Power as per Section 28

1370. ✓

Is Refrigerating Machinery fitted for cargo purposes

YES.

Is Electric Light fitted YES.

ENGINES, &c.—Description of Engines 2 QUADRUPLE EXPANSION

No. of Cylinders 8

No. of Cranks 8

Dia. of Cylinders 23½" 34" 50" 42" Length of Stroke 54" Revs. per minute 80

Dia. of Screw shaft as per rule 15.04 Material of screw shaft

as fitted 16½" ✓

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

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 14.09

as fitted 14.25

Dia. of Crank shaft journals

as per rule 14.49

as fitted 15"

Dia. of Crank pin 15"

Size of Crank webs 10½" x 23"

Dia. of thrust shaft under

collars 15"

Dia. of screws 17½"

Pitch of Screws 21" 9"

No. of Blades 4

State whether mopeable YES.

Total surface 860 ft²

No. of Feed pumps 2

Diameter of ditto 4½"

Stroke 24"

Can one be overhauled while the other is at work YES.

No. of Bilge pumps 2

Diameter of ditto 4½"

Stroke 24"

Can one be overhauled while the other is at work YES.

No. of Donkey Engines 4

Sizes of Pumps

13" x 6½" x 10"

9" x 10" x 10"

2-6" x 4½" x 6"

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

In Engine Room 4"

In Holds, &c. 4"

No. of Bilge Injections 2

sizes 10½"

Connected to condenser to circulating pump YES.

Is a separate Donkey Suction fitted in Engine room & size

YES. 4"

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 ✓

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 THROUGH TUNNELS.

How are they protected ✓

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 TOP PLATFORM.

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

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

W641-0023

IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

✓

SPARE GEAR. State the articles supplied:—

Four top end and four bottom end bolts and nuts, four main bearing bolts and nuts, one full set of coupling bolts for each engine, sets of feed and bridge pump valves, quantity of assorted bolts and nuts, iron of various sizes etc.

The foregoing is a correct description,

Manufacturer.

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

✓ 1926 Jan 7 10 12 13 17 21 22 Feb 9 10 27

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 7.1.20 Slides 10.1.20 Covers 7.1.20 Pistons 7.1.20 Rods 7.1.20

Connecting rods 7.1.20 Crank shaft 2.2.20 Thrust shaft 2.2.20 Tunnel shafts 2.2.20 Screw shaft ✓ Propeller 2.1.20

Stern tube ✓ Steam pipes tested ✓ Engine and boiler seatings 2.1.2.20 Engines holding down bolts 2.1.2.20

Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam 20.2.20

Completion of fitting sea connections ✓ Stern tube ✓ Screw shaft and propeller ✓

Main boiler safety valves adjusted 20.2.20 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 STEEL ✓ Test pressure

Is an installation fitted for burning oil fuel YES ✓ Is the flash point of the oil to be used over 150° F. YES ✓

Have the requirements of Section 49 of the Rules been complied with YES ✓

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. These engines have been examined by me in detail and tried under full working conditions and found good. The workmanship is good and the machinery is eligible in my opinion to be classed with this Society and to have notation of L.M.C. 2.20 in the Register Book when the survey is completed.

To complete the survey the tail shafts require to be drawn in for examination and measurement.

The amount of Entry Fee ... £

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

19

When received,

20/2/20

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned. See other L/R No 18299



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