

REPORT ON MACHINERY.

No. 42059

Received at London Office

WED. 19 JUL. 1922

Date of writing Report

19

When handed in at Local Office

8/7/

1922 Port of

Glasgow

No. in Survey held at

Glasgow

Date, First Survey

2/5/20

Last Survey

11-7-

1922

Reg. Book.

on the

S/S "Foch Rose"

(Number of Visits)

52

Gross

1135

Tons

Net

617

Master

Built at

Paisley

By whom built

John Fullerton & Co. (1920)

When built

1922

Engines made at

Glasgow

By whom made

Roe & Dunlop & Co. (1920)

when made

1922

Boilers made at

do

By whom made

do

1654/5

when made

1922

Registered Horse Power

Owners

Richard Hughes & Co.

Port belonging to

Liverpool

Nom. Horse Power as per Section 28

153

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

16 - 26

44

Length of Stroke

33

Revs. per minute

100

Dia. of Screw shaft

as per rule

9 3/4"

Material of

S

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

39"

Dia. of Tunnel shaft

as per rule

8.32"

Dia. of Crank shaft journals

as per rule

8.75"

Dia. of Crank pin

9 1/8"

Size of Crank webs

13 1/4 x 17"

Dia. of thrust shaft under

collars

9"

Dia. of screw

11.3"

Pitch of Screw

12.6"

No. of Blades

4

State whether moveable

No

Total surface

50 #

No. of Feed pumps

2

Diameter of ditto

23 1/2"

Stroke

16 1/2"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

3"

Stroke

16 1/2"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

2

Sizes of Pumps

Ball 7 x 8 x 8 Rod 6 x 4 x 6"

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

In Engine Room

1

2 1/2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

No. of Bilge Injections

1

sizes

4"

Connected to

—

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

—

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

Hold Tank Suctions

How are they protected

Wood casing

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

No

Is it fitted with a watertight door

—

worked from

—

BOILERS, &c.—(Letter for record

S)

Manufacturers of Steel

David Colville & Sons

Total Heating Surface of Boilers

2856 #

Is Forced Draft fitted

No

No. and Description of Boilers

2 Single Ended

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

16.3.22

No. of Certificate

16033

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

39 #

No. and Description of Safety Valves to

each boiler

Double Spring

Area of each valve

4.9 #

Pressure to which they are adjusted

185

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

3.9"

Mean dia. of boilers

12.0"

Length

10.6"

Material of shell plates

S

Thickness

1"

Range of tensile strength

28/32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

DR

long. seams

TRIDBS

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

7"

Length of plates or width of butt straps

17 3/4"

Per centages of strength of longitudinal joint

rivets

84.5%

Working pressure of shell by rules

180

Size of manhole in shell

16 x 12

Size of compensating ring

7 Ring 1"

No. and Description of Furnaces in each boiler

2 Corrugated

Material

S

Outside diameter

46 1/4"

Length of plain part

top

bottom

Thickness of plates

crown

3 9/16"

Description of longitudinal joint

Weld

No. of strengthening rings

—

Working pressure of furnace by the rules

190

Combustion chamber plates: Material

S

Thickness: Sides

1 1/16"

Back

5/8"

Top

1 1/16"

Bottom

4 1/16"

Pitch of stays to ditto: Sides

9 1/2 x 9"

Back

8 1/2 x 8 1/2"

Top

9 1/2 x 9"

If stays are fitted with nuts or riveted heads

No

Working pressure by rules

187

Material of stays

S

Area at smallest part

1 1/16"

Area supported by each stay

77.25 #

Working pressure by rules

194

End plates in steam space:

Material

S

Thickness

1 1/32"

Pitch of stays

17 x 16"

How are stays secured

DN Washers

Working pressure by rules

185

Material of stays

S

Area at smallest part

5 1/8"

Area supported by each stay

272

Working pressure by rules

186

Material of Front plates at bottom

S

Thickness

27/32"

Material of Lower back plate

S

Thickness

27/32"

Greatest pitch of stays

14 x 8 1/2"

Working pressure of plate by rules

183

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2 x 4 1/4"

Material of tube plates

S

Thickness: Front

27/32"

Back

3/4"

Mean pitch of stays

10 1/4"

Pitch across wide water spaces

14"

Working pressures by rules

243

Girders to Chamber tops: Material

S

Depth and

thickness of girder at centre

7 3/4 x 13 1/4"

Length as per rule

20 1/8"

Distance apart

9"

Number and pitch of stays in each

24 x 9 1/2"

Working pressure by rules

188

Steam dome: description of joint to

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:-

2 Connecting Rod bolts for top end, ditto for bottom end. 2 Main Bearing bolts. 1 Set of Coupling bolts. 1 Set of Feed & Bilge Pump Bolts. 1 Set of Piston Rings. A quantity of assorted bolts & nuts of various sizes.

The foregoing is a correct description,

Ross Duncan

Manufacturer.

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

1920. May 2-14-19. 26-29. 31. Oct. 4-19. Nov 25.
1921. July 2-22. Oct 12-20-28. May 10-18. Sept 12-23-29. Oct 10-19. Nov 6-21-24. Dec 16-21-27.
1922. Jan 11-17. 18-28-30. Feb 2-6-9. 15-23-28. Feb 8-14-16-17-24-28. Apr 4-13. June 20-28-30.
July 5-6-11

Is the approved plan of main boiler forwarded herewith

Yes

Dates of Examination of principal parts—Cylinders 30. 1. 22 Slides 26. 11. 20 Covers 30. 1. 22 Pistons 22. 2. 6 Rods 26. 11. 20
Connecting rods 26. 11. 20 Crank shaft 11. 1. 22 Thrust shaft 8. 3. 22 Tunnel shafts — Screw shaft 8. 3. 22 Propeller 8. 3. 22
Stern tube 8. 3. 22 Steam pipes tested 30-6/22 Engine and boiler seatings 28. 3. 22 Engines holding down bolts 28. 6. 22
Completion of pumping arrangements 11. 7. 22 Boilers fixed 28. 6. 22 Engines tried under steam 11. 7. 22
Completion of fitting sea connections 28. 3. 22 Stern tube 28. 3. 22 Screw shaft and propeller 28. 3. 22
Main boiler safety valves adjusted 6. 7. 22 Thickness of adjusting washers PR 11/32 S R 1/64 PR 21/64 S R 9/32
Material of Crank shaft S Identification Mark on Do. 120. 11. 22 Material of Thrust shaft S Identification Mark on Do. 120. 11. 22
Material of Tunnel shafts ✓ Identification Marks on Do. C.M. Material of Screw shafts S Identification Marks on Do. 120 C.M.
Material of Steam Pipes Copper Test pressure 360 lbs

Is an installation fitted for burning oil fuel No

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 No

If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. These Engines & Boilers have been built under Special Survey in accordance with the approved plans & the workmanship & material are of good quality. They have now been securely fitted on board & tried under steam & found satisfactory. The machinery is eligible in our opinion for the record of L.M.C. 7. 22

It is submitted that this vessel is eligible for THE RECORD.

L.M.C. - 7.22.

C.L.

L.J. 20/7/22. C.L.

The amount of Entry Fee ... £ 33-
Special ... £ 38-5-
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :

When applied for,

When received,

Committee's Minute

Assigned

+ L.M.C. 7. 22

MACHINERY DEPT
WRITTEN



© 2021

Lloyd's Register
Foundation