

## REPORT ON MACHINERY.

No. 15340.

Received at London Office MON. 22 APR. 1918

Date of writing Report 20.4.1918 When handed in at Local Office 20.4.1918 Port of Leith.

No. in Survey held at Reg. Book.

Date, First Survey 3.5.17 Last Survey 10.4.1918

on the

S.S. *Falavée* (A. Jeffrey 46<sup>th</sup> Eng. N<sup>o</sup> 23)

Number of Visits 25

Gross 338.37

Master

Built at

Man

By whom built

Wm. &amp; Co.

Net 120.19

When built 1915

Engines made at

Man

By whom made

Wm. &amp; Co.

when made 1915

Boilers made at

Wm. &amp; Co.

By whom made

A. L. &amp; Co.

when made 1915

Registered Horse Power

Owners

Howden Bros. Larne.

Port belonging to

Belfast.

Nom. Horse Power as per Section 28

75

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &amp;c.—Description of Engines

Compound

No. of Cylinders

2

No. of Cranks

2

Dia. of Cylinders

16 1/2 36

Length of Stroke

27

Revs. per minute

110

Dia. of Screw shaft

as per rule 7.74

Material of

2 iron

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

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 36"

Dia. of Tunnel shaft

as per rule 7.6

Dia. of Crank shaft journals

as per rule 7.6

Dia. of Crank pin

8"

Size of Crank web

5 1/4 x 5 1/4

Dia. of thrust shaft under

Collars

8"

Dia. of screw

9.0"

Pitch of Screw

11.6"

No. of Blades

4

State whether moveable

yes

Total surface

287

No. of Feed pumps

2

Diameter of ditto

2 1/2"

Stroke

13 1/2"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

2 1/2"

Stroke

13 1/2"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

2

SIZES OF PUMPS

6 x 6 x 6, 6 x 4 1/2 x 6

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

In Holds, &amp;c.

In main hold 2, 2 1/2"

Engine Room

2, 2 1/4"

No. of Bilge Injections

1

sizes

4"

Connected to condenser, or to circulating pump

yes

Is a separate Donkey Suction fitted in Engine room &amp; size

yes 3"

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

That pipes are carried through the bunkers

Bilge pipes (suction)

How are they protected

strong 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

Dates of examination of completion of fitting of Sea Connections

19/12/17

of Stern Tube

19/3/18

Screw shaft and Propeller

19/3/18

Is the Screw Shaft Tunnel watertight

yes

Is it fitted with a watertight door

—

worked from

BOILERS, &amp;c.—(Letter for record

15)

Manufacturers of Steel

In Wm. &amp; Co. Report attached

Total Heating Surface of Boilers

1370

Is Forced Draft fitted

no

No. and Description of Boilers

one single ended

Working Pressure

135 lb

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

47 sq

No. and Description of Safety Valves to

each boiler

2 spring valves

Area of each valve

7.07 sq

Pressure to which they are adjusted

135 lb

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

24"

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

Percentages 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

3 p.f.

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

Description of longitudinal joint

bottom

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

Diameter 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

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Working pressure of plate by rules

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

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

W37-0148



IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

A set of connecting rod top & bottom end, main bearing, and coupling to  
air circulating, feed, and bilge pump valves, and assorted bolts etc.

The foregoing is a correct description,

FOR A. JEFFREY & CO., LTD.

R. J. Jeffrey & Co. Ltd.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1914, May 3, 11, 15, 31, June 19, 20, 22, July 25, 26, 31, Aug. 3, 30, Sept. 21, Oct. 4, 25, Nov. 13, 22, Dec. 10, 19, 28.  
{ During erection on board vessel - - } 1918, Jan 21, Mar 4, 19, Apr. 5, 10.  
Total No. of visits 25.

Is the approved plan of main boiler forwarded herewith ✓

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 10/12/17 Slides 10/12/17 Covers 19/12/17 Pistons 19/12/17 Rods 19/12/17

Connecting rods 19/12/17 Crank shaft 12/9/17 Thrust shaft 19/9/17 Tunnel shafts Nil Screw shaft 19/12/17 Propeller 19/12/17

Stern tube 22/11/17 Steam pipes tested 22/3/18 Engine and boiler seatings 19/3/18 Engines holding down bolts 19/3/18

Completion of pumping arrangements 10/4/18 Boilers fixed 10/4/18 Engines tried under steam 10/4/18

Main boiler safety valves adjusted 10/4/18 Thickness of adjusting washers  $P\frac{3}{8}$  5" 1/2

Material of Crank shaft Stn Identification Mark on Do. 4463444 Material of Thrust shaft Stn Identification Mark on Do. 44634

Material of Tunnel shafts Nil Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 44634

Material of Steam Pipes Stn Test pressure 405 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.)

This machinery has been built under special survey, and the workmanship & material are good. It has been efficiently fitted on board the vessel, and is eligible in our opinion for record of + LMC 4.18

It is submitted that  
this vessel is eligible for  
THE RECORD. + LMC 4.18.

The amount of Entry Fee ... £ 1 : - : When applied for,  
Special ... £ 11 : 6 : 20.4. 19.18  
Donkey Boiler Fee ... £ : : When received,  
Travelling Expenses (if any) £ 2 : 0 : 8.6. 19.18

Committee's Minute FRI. 26 APR. 1918

Assigned

+ LMC 4.18

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation