

# REPORT ON MACHINERY.

Received at London Office **MUN. 22-27K. 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. on the **Alcoa "FALAVEE" (A. Jeffrey & Co. Eng. N. 23)** Date, First Survey **3.5.17** Last Survey **10.4.1918** Number of Visits **25**

Master **Wm. ...** Built at **Man** By whom built **Wm. ...** Tons { Gross **338.37** Net **120.19** When built **1915**

Engines made at **Man** By whom made **Wm. ...** when made **1915**  
Boilers made at **Wm. ...** By whom made **A. L. ...** when made **1915**

Registered Horse Power **75** 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, &c.—Description of Engines **Compound** No. of Cylinders **2** No. of Cranks **2**  
Dia. of Cylinders **16 1/2** Length of Stroke **27** Revs. per minute **110** Dia. of Screw shaft as per rule **7.74** Material of screw shaft **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 **yes**  
the propeller boss **yes** If the liner is in more than one length are the joints burned **no** 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 **no** If two liners are fitted, is the shaft lapped or protected between the liners **no** Length of stern bush **36"**

Dia. of Tunnel shaft as per rule **8"** Dia. of Crank shaft journals as per rule **7.6"** Dia. of Crank pin **8"** Size of Crank webs **5 1/4 x 4 1/2** Dia. of thrust shaft under collars **8"** Dia. of screw **9.0"** Pitch of Screw **11.6"** No. of Blades **4** State whether moceable **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 **6x6x6, 6x4 1/2x6** No. and size of Suctions connected to both Bilge and Donkey pumps **2, 2 1/2"**

Is the Engine Room **2, 2 1/2"** In Holds, &c. **In main hold 2, 2 1/2"**

No. of Bilge Injections **1** sizes **4"** Connected to condenser, or to circulating pump **yes** Is a separate Donkey Suction fitted in Engine room & 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 **no**  
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 **no** worked from **no**

BOILERS, &c.—(Letter for record **15**) Manufacturers of Steel **In Wm. ... Report attached**

Total Heating Surface of Boilers **1370** Is Forced Draft fitted **no** No. and Description of Boilers **one simple shell**  
Working Pressure **135 lbs** Tested by hydraulic pressure to **no** Date of test **no** No. of Certificate **no**

Can each boiler be worked separately **no** Area of fire grate in each boiler **47 sq ft** No. and Description of Safety Valves to each boiler **2 spring valves** Area of each valve **7.07 sq in** Pressure to which they are adjusted **135 lbs.** Are they fitted with easing gear **yes**  
Smallest distance between boilers or uptakes and bunkers or woodwork **24"** Mean dia. of boilers **no** Length **no** Material of shell plates **no**  
Thickness **no** Range of tensile strength **no** Are the shell plates welded or flanged **no** Descrip. of riveting: cir. seams **no**  
Pitch of rivets **no** Lap of plates or width of butt straps **no**  
Percentage of strength of longitudinal joint **no** Working pressure of shell by rules **no** Size of manhole in shell **no**  
Size of compensating ring **no** No. and Description of Furnaces in each boiler **3 p.f.** Material **no** Outside diameter **no**  
Length of plain part **no** Thickness of plates **no** Description of longitudinal joint **no** No. of strengthening rings **no**  
Working pressure of furnace by the rules **no** Combustion chamber plates: Material **no** Thickness: Sides **no** Back **no** Top **no** Bottom **no**  
Pitch of stays to ditto: Sides **no** Back **no** Top **no** If stays are fitted with nuts or riveted heads **no** Working pressure by rules **no**  
Material of stays **no** Diameter at smallest part **no** Area supported by each stay **no** Working pressure by rules **no** End plates in steam space: **no**  
Material **no** Thickness **no** Pitch of stays **no** How are stays secured **no** Working pressure by rules **no** Material of stays **no**  
Diameter at smallest part **no** Area supported by each stay **no** Working pressure by rules **no** Material of Front plates at bottom **no**  
Thickness **no** Material of Lower back plate **no** Thickness **no** Greatest pitch of stays **no** Working pressure of plate by rules **no**  
Diameter of tubes **no** Pitch of tubes **no** Material of tube plates **no** Thickness: Front **no** Back **no** Mean pitch of stays **no**  
Pitch across wide water spaces **no** Working pressures by rules **no** Girders to Chamber tops: Material **no** Depth and thickness of girder at centre **no** Length as per rule **no** Distance apart **no** Number and pitch of stays in each **no**  
Working pressure by rules **no** Superheater or Steam chest; how connected to boiler **no** Can the superheater be shut off and the boiler worked separately **no** Diameter **no** Length **no** Thickness of shell plates **no** Material **no** Description of longitudinal joint **no** Diam. of rivet holes **no** Pitch of rivets **no** Working pressure of shell by rules **no** Diameter of flue **no** Material of flue plates **no** Thickness **no**  
If stiffened with rings **no** Distance between rings **no** Working pressure by rules **no** End plates: Thickness **no** How stayed **no**  
Working pressure of end plates **no** Area of safety valves to superheater **no** Are they fitted with easing gear **no**

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 - - - | 1917. May 3, 11, 15, 31. June 19, 20, 22. July 25, 29, 31. Aug. 3, 30. Sept. 21. Oct. 4, 25. Nov. 13, 22. Dec. 10, 19, 28. |
|                                |  | During erection on board vessel - - -  |
|                                | Total No. of visits                    | 25.  |

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 None 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"  $\frac{1}{32}$   
 Material of Crank shaft Stnl Identification Mark on Do. 44634AA Material of Thrust shaft Stnl Identification Mark on Do. 44634  
 Material of Tunnel shafts None Identification Marks on Do.  Material of Screw shafts Iron Identification Marks on Do. 44634  
 Material of Steam Pipes Stnl 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.

JWD 25/4/18

APR

|                                |              |                   |
|--------------------------------|--------------|-------------------|
| 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 : 0    | 8.6. 19.18        |

W. H. H. & Co. Surveyors to Lloyd's Register of British & Foreign Shipping.

Committee's Minute FRI. 26. APR. 1918

Assigned + LMC 4:18

Certificate (if required) to be sent to the Surveyors are requested not to write on or below the space for Committee's Minute.



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