

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 23 OCT 1933

Date of writing Report 19/10/1933 When handed in at Local Office 19/10/1933 Port of Leith  
 No. in Survey held at Burntisland Date, First Survey 7/8/33 Last Survey 18/10/1933  
 Reg. Book. on the S/S "FRANCIS FLADGATE" (Number of Visits 7) Tons } Gross 2268  
 } Net 1280  
 Built at Burntisland By whom built Burntisland SBC<sup>o</sup>L<sup>d</sup> Yard No. 175 When built 1933  
 Engines made at Glasgow By whom made D Roaran 4C<sup>o</sup> Engine No. 956 When made 1933  
 Boilers made at — By whom made — Boiler No. 956 When made 1933  
 Indicated Horse Power — Owners London Power C<sup>o</sup>L<sup>d</sup> Port belonging to London  
 Horse Power as per Rule 218 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes  
 for which Vessel is intended Collier

**DETAILS, &c.—Description of Engines**

No. of Cylinders	Length of Stroke	No. of Cranks	Revs. per minute
as per Rule	as fitted	as per Rule	as fitted
Crank pin dia.	Mid. length breadth	Thrust shaft, diameter at collars	Thickness parallel to axis
Crank webs	Mid. length thickness	as per Rule	Thickness round eye-hole
as fitted	as fitted	as fitted	as fitted

Shafts, diameter as per Rule as fitted  
 Screw Shaft, diameter as per Rule as fitted  
 Is the after end of the liner made watertight in the stern tube? Yes  
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner? Yes  
 Is the space charged with a plastic material insoluble in water and non-corrosive? Yes  
 Is an approved Oil Gland or other appliance fitted at the after end of the tube? Yes  
 Length of Bearing in Stern Bush next to and supporting propeller See Glasgow Rpt No 53836  
 No. of Blades 3 Material Steel whether Movable No Total Developed Surface — sq. feet  
 Pumps worked from the Main Engines, No. 1 Diameter 6" Stroke 10" Can one be overhauled while the other is at work? Yes  
 Pumps worked from the Main Engines, No. 1 Diameter 6" Stroke 10" Can one be overhauled while the other is at work? Yes  
 No. and size 1 x 9 x 12 x 4" duplex Main Bilge Line How driven See Glasgow Rpt No 53836  
 Lubricating Oil Pumps, including Spare Pump, No. and size 3 at 2 1/2" dia  
 Suctions, connected to both Main Bilge Pumps and Auxiliary Pumps:—In Engine and Boiler Room 3 at 2 1/2" dia  
 In Holds, &c. 2 at 3" N<sup>o</sup> 1 Hold 2 at 3" N<sup>o</sup> 2 Hold.

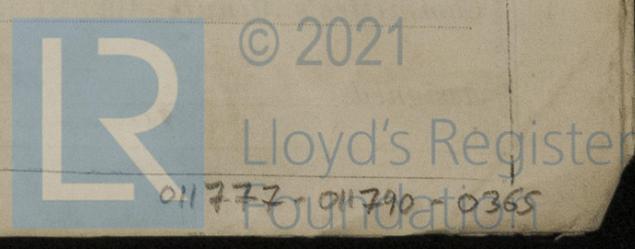
**WATER CIRCULATING PUMP DIRECT BILGE SUCTIONS, No. and size** 1 @ 6" dia Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 4" dia  
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes? Yes  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges? Yes  
 Sea Connections fitted direct on the skin of the ship? Yes Are they fitted with 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 Overboard Discharges above or below the deep water line? both  
 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  
 How are they protected? By wood bilge ceiling.  
 Have they been tested as per Rule? Yes  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times? Yes  
 Is the Shaft Tunnel watertight? Eng. Aft Is it fitted with a watertight door? Yes worked from? Yes

**MAIN BOILERS, &c.—(Letter for record)** Total Heating Surface of Boilers —  
 Proceed Draft fitted? Yes No. and Description of Boilers A REPORT ON MAIN BOILERS NOW FORWARDED? Working Pressure —  
 A DONKEY BOILER FITTED? See Glasgow Rpt No 53836 If so, is a report now forwarded? Yes  
 Are approved plans forwarded herewith for Shafting? Yes Main Boilers — Auxiliary Boilers — Donkey Boilers —  
 General Pumping Arrangements — Oil fuel Burning Piping Arrangements —

**SPARE GEAR.**  
 The spare gear required by the Rules been supplied? Yes  
 The principal additional spare gear supplied? Yes

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

Aug 7<sup>th</sup>, 21<sup>st</sup> Sept 15<sup>th</sup>, 26<sup>th</sup> Oct; 6<sup>th</sup>, 12<sup>th</sup>, 18<sup>th</sup>

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Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓

Pistons ✓ Piston Rods ✓ Connecting rods ✓

Crank shaft ✓ Thrust shaft ✓ Intermediate shafts ✓

Tube shaft ✓ Screw shaft ✓ Propeller ✓

Stern tube 21/8/33 Engine and boiler seatings 7/8/33 Engines holding down bolts 6/10/33

Completion of fitting sea connections 15/9/33

Completion of pumping arrangements 6/10/33 Boilers fixed 6/10/33 Engines tried under steam 18/10/33

Main boiler safety valves adjusted 6/10/33 Thickness of adjusting washers P  $\frac{3}{8}$ " S  $\frac{3}{8}$ " P  $\frac{11}{32}$ " S  $\frac{11}{32}$ "

Crank shaft material ✓ Identification Mark ✓ Thrust shaft material ✓ Identification Mark ✓

Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓

Screw shaft, material ✓ Identification Mark ✓ Steam Pipes, material SD Steel Test pressure 600 lbs Date of Test 28/9/33

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 the Rules for the use of oil as fuel been complied with ✓

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No If so, have the requirements of the Rules been complied with ✓

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with ✓

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.) *This machinery has been efficiently fitted on board, the materials & workmanship being sound & good. On completion all safety valves were adjusted under steam & the Main & Auxiliary machinery were tried under working condition & found satisfactory. This machinery in my opinion is in safe working condition & eligible to be classed in the Register Book, with the notation of \*LMC 10-33 & TS (L) 10-33.*

The amount of Entry Fee ... £ : When applied for, 19 *army*

Special ... £ *See Class 7 over Rpt No 3836* : When received, 19

Donkey Boiler Fee ... £ : 19

Travelling Expenses (if any) £ 1 : 2 : 0 28.10.33

*Chas R Roushiffe*  
Engineer Surveyor to Lloyd's Register of Shipping.

TUE. 26 JUN 1934

Committee's Minute TUE. 31 OCT 1933

Assigned

*+ Lmb 10.33 L*

CERTIFICATE WRITTEN

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Rpt. 4.

Date of writing

No. in Series Reg. Book.

Built at

Engines

Boilers

Registered

Nom. Horse Power

Trade for

ENGINE

Dia. of Crank shaft

Intermed

Tube Sha

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NOTE—The words which do not apply should be deleted.