

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

7 OCT 1931

Received at London Office - 2 MAY 1931.

Date of writing Report 19 When handed in at Local Office 21-2-27 19 19 Port of Glasgow.

No. in Survey held at Contract Date, First Survey 27/2/17 Last Survey 18/12 1922  
 Reg. Book. on the (Number of Visits 16)

Built at \_\_\_\_\_ By whom built \_\_\_\_\_ Yard No. \_\_\_\_\_ Tons <sup>Gross</sup> \_\_\_\_\_  
 Engines made at Contract By whom made J. Beardmore & Co. Engine No. 556 when built \_\_\_\_\_  
 Boilers made at \_\_\_\_\_ By whom made \_\_\_\_\_ Boiler No. \_\_\_\_\_ when made \_\_\_\_\_

Registered Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

Nom. Horse Power as per Rule 114.5 Is Refrigerating Machinery fitted for cargo purposes \_\_\_\_\_ Is Electric Light fitted \_\_\_\_\_

**General Description of Engines** Steam, triple expansion inverted type Revs. per minute \_\_\_\_\_

Cylinders 4", 24", 40" Length of Stroke 27" No. of Cylinders 3 No. of Cranks 3

Thrust shaft, diameter at collars \_\_\_\_\_ as per Rule 7.52" 7.43  
 as fitted 7.34"

Screw Shaft, diameter \_\_\_\_\_ as per Rule \_\_\_\_\_ Is the solid shaft fitted with a continuous liner Yes  
 as fitted 8.58"

Length of Bearing in Stern Bush next to and supporting propeller \_\_\_\_\_

No. of Blades 4 Material C. iron whether Movable Solid Total Developed Surface \_\_\_\_\_ sq. feet

worked from the Main Engines, No. 2 Diameter 3" Stroke 13 1/2" Can one be overhauled while the other is at work Yes  
 worked from the Main Engines, No. 2 Diameter 3" Stroke 13 1/2" Can one be overhauled while the other is at work Yes

Pumps connected to the Main Bilge Line { No. and size \_\_\_\_\_  
 How driven \_\_\_\_\_

Lubricating Oil Pumps, including Spare Pump, No. and size \_\_\_\_\_

Oil Cooler \_\_\_\_\_ Suctions, connected to both Main Bilge Pumps and Auxiliary \_\_\_\_\_

**Circulating Pump Direct Bilge Suctions, No. and size** \_\_\_\_\_ **Independent Power Pump Direct Suctions to the Engine Room Bilges,** \_\_\_\_\_

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes \_\_\_\_\_

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 \_\_\_\_\_

Connections fitted direct on the skin of the ship \_\_\_\_\_ Are they fitted with Valves or Cocks \_\_\_\_\_

Are they sufficiently high on the ship's side to be seen without lifting the stokehold plates \_\_\_\_\_ Are the Overboard Discharges above or below the deep water line \_\_\_\_\_

Are they fitted with a Discharge Valve always accessible on the plating of the vessel \_\_\_\_\_ Are the Blow Off Cocks fitted with a spigot and brass covering plate \_\_\_\_\_

How are they protected \_\_\_\_\_

Have they been tested as per Rule \_\_\_\_\_

Are the Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times \_\_\_\_\_

Are the connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another \_\_\_\_\_

Is the Shaft Tunnel watertight \_\_\_\_\_ Is it fitted with a watertight door \_\_\_\_\_ worked from \_\_\_\_\_

**BOILERS, &c.** - (Letter for record \_\_\_\_\_) Total Heating Surface of Boilers \_\_\_\_\_ Working Pressure 180 lbs.

Draft fitted \_\_\_\_\_ No. and Description of Boilers \_\_\_\_\_

REPORT ON MAIN BOILERS NOW FORWARDED? \_\_\_\_\_

DONKEY BOILER FITTED? \_\_\_\_\_ If so, is a report now forwarded? \_\_\_\_\_

Are approved plans forwarded herewith for Shafting \_\_\_\_\_ Main Boilers \_\_\_\_\_ Auxiliary Boilers \_\_\_\_\_ Donkey Boilers \_\_\_\_\_  
 (If not state date of approval)

General Pumping Arrangements \_\_\_\_\_ Oil fuel Burning Piping Arrangements \_\_\_\_\_

GEAR. State the articles supplied:—

The foregoing is a correct description,

WILLIAM BEARDMORE & CO., LIMITED.

Manufacturers.



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002222-002228-0026

1921 Feb 17-28 Mar 4-21-31 Apr 8-14-29 May 5-9-17-27 Jun 7-10 Dec 21 1922 Dec 18

During progress of work in shops - -

Dates of Survey while building } During erection on board vessel - -

Total No. of visits 16

Dates of Examination of principal parts—Cylinders 28/2/21 4/3/21 Slides 5/5/21 Covers 28/2/21  
 Pistons 4/3/21 Piston Rods 17/2/21 Connecting rods 5/5/21  
 Crank shaft 21/3/21 31/3/21 Thrust shaft 5/5/21 Intermediate shafts  
 Tube shaft Screw shaft 29/4/21 Propeller 17/5/21  
 Stern tube Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Main boiler safety valves adjusted Thickness of adjusting washers

Crank shaft material *Anger Steel* Identification Mark *LLOYDS 5084 9RW* Thrust shaft material *Steel* Identification Mark

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

Screw shaft, material *Steel* Identification Mark Steam Pipes, material Test pressure Date of Test

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

Have the requirements of the Rules for carrying and burning oil fuel 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 engine has been built under Special Survey in accordance with the Rules of this Society. The materials and workmanship are good.*

*It was intended for Dublin ~~Shippbuilders~~ <sup>Shippbuilders</sup> 5/8 1/2 in which vessel the propeller, propeller shaft and thrust shaft have been fitted, but the work has now been stopped.*

*These engines are still in the makers works.*

Certificate to be sent to the Surveyors and requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ : : } When applied for, 25/2/27  
 Special 2/5... " ... £ 11 : 8 : }  
 Donkey Boiler Fee ... £ : : }  
 Travelling Expenses (if any) £ : : } When received, 3. 10. 27

*J. J. S. Barr.*  
*A. Campbell*  
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 16 OCT 1931

Committee's Minute GLASGOW 21 FEB 1927 1 MAR 1927

Assigned Transmit to London

*See 18070*



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If not, state whether, and when, one will be sent? from death