

No. 53836

Rpt. 4.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 20 SEP 1933 23 OCT 1933

Date of writing Report 15-9-1933 When handed in at Local Office Glasgow Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 15-9-1933 Last Survey 15-9-1933
 Reg. Book. on the New steel S/S "FRANCIS FLAGGATE" Tons Gross Net
 Built at Burntisland By whom built Burntisland S/B Co Ltd Yard No. 175 When built 1933
 Engines made at Glasgow By whom made D. Rowan & Co Ltd Engine No. 956 When made 1933
 Boilers made at Glasgow By whom made D. Rowan & Co Ltd Boiler No. 956 When made 1933
 Registered Horse Power Owners Port belonging to
 Nom. Horse Power as per Rule 218 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Triple expansion Revs. per minute
 Dia. of Cylinders 20"-33"-54" Length of Stroke 36" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 10.668" Crank pin dia. 10 3/4" Crank webs Mid. length breadth 15 1/2" Thickness parallel to axis 6 7/8"
as fitted 10 3/4" Mid. length thickness 6 1/8" Thickness around eye-hole 4 7/8"
 Intermediate Shafts, diameter as per Rule 10.16" Thrust shaft, diameter at collars as per Rule 10.668"
as fitted 10 3/4" as fitted 10 3/4" as fitted 10 3/4"
 Tube Shafts, diameter as per Rule 11.38" Is the tube shaft fitted with a continuous liner yes
as fitted 11 1/2" screw
 Bronze Liners, thickness in way of bushes as per Rule 11.644" Thickness between bushes as per Rule 5/8" Is the after end of the liner made watertight in the
as fitted 11"
 propeller boss yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
 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 yes
 If two liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after end of the tube
 shaft If so, state type Length of Bearing in Stern Bush next to and supporting propeller 3-10"
 Propeller, dia. 14-8" Pitch 15-1" No. of Blades 4 Material best iron whether Moveable no Total Developed Surface 72 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 18" Can one be overhauled while the other is at work yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 3 1/2" Stroke 18" Can one be overhauled while the other is at work yes
 Feed Pumps Pumps connected to the Main Bilge Line
 Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room In Holds, &c.
 In Pump Room

Main Water Circulating Pump Direct Bilge Suctions, No. and size **Independent Power Pump Direct Suctions to the Engine Room Bilges,**
 No. and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes
 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
 Are all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
 Are they fixed 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 each 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
 What Pipes pass through the bunkers How are they protected
 What pipes pass through the deep tanks Have they been tested as per Rule
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 Is the arrangement of Valves and their 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

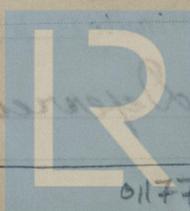
MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 3600 sq ft
 Is Forced Draft fitted no No. and Description of Boilers 2 SB Working Pressure 200 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes
 IS A DONKEY BOILER FITTED? no If so, is a report now forwarded?
 Is the donkey boiler intended to be used for domestic purposes only
 PLANS. Are approved plans forwarded herewith for Shafting no Main Boilers yes Auxiliary Boilers Donkey Boilers
 Superheaters General Pumping Arrangements no Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied
 State the principal additional spare gear supplied

The foregoing is a correct description,
 For David Rowan & Co Ltd
 Arch. W. Grierson

Manufacturer.



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Lloyd's Register

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

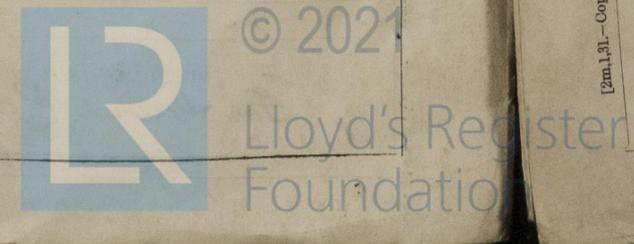
1932 Nov. 17, 23, 25, 29. Dec. 6, 15, 20, 23. 1933 Jan. 10, 13, 16, 19, 25, 31. Feb. 6, 13, 14, 16, 20, 22.
 During progress of work in shops -- Mar. 1, 6, 9, 13, 17, 27, 29. Apr. 12, 14, 17, 19, 24, 25, 26, 27, 28. May 1, 5, 8, 10, 12, 15, 17, 24, 26, 29. June 2, 6, 8, 9, 15, 23, 30. July 6. Aug. 2, 7, 15, 16, 17, 22, 24, 29, 31. Sept. 5, 15, 26, 28, 30.
 During erection on board vessel --
 Total No. of visits 65.

Dates of Examination of principal parts—Cylinders 27-3-33 Slides 27-4-33 Covers 27-4-33
 Pistons 28-5-33 Piston Rods 22-8-33 Connecting rods 8-5-33
 Crank shaft 28-4-33 Thrust shaft 24-8-33 Intermediate shafts —
 Tube shaft — Screw shaft 16-8-33 Propeller 1-5-33
 Stern tube 7-8-33 Engine and boiler seatings Engines holding down bolts
 Completion of fitting sea connections
 Completion of pumping arrangements Boilers fixed Engines tried under steam
 Main boiler safety valves adjusted Thickness of adjusting washers
 Crank shaft material 7. Steel Identification Mark LLOYDS No 692 Thrust shaft material 7. Steel Identification Mark LLOYDS No 691
 Intermediate shafts, material Identification Marks J.H. 28-4-33 Tube shaft, material Identification Mark L.C.D. 24-8-33
 Screw shaft, material 7. Steel Identification Mark LLOYDS No 688 Steam Pipes, material Steel Test pressure 600 lb Date of Test 15-9-33
 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 the use of oil as fuel been complied with
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo 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 No If so, state name of vessel.

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The workmanship and materials are good.
 The machinery has been constructed under special survey and has been sent to Buntingford to be fitted in the vessel.

The amount of Entry Fee ... £ 4 :
 Special 1/2 ann ... £ 43 : 12
 Donkey Boiler Fee ... £ 10 : 18
 Travelling Expenses (if any) £ :
 When applied for 19 SEP 1933
 When received 26.9.1933
 S. C. Davis
 Engineer Surveyor to Lloyd's Register of Shipping.
 TUE. 26 JUN 1934

Committee's Minute GLASGOW 19 SEP 1933
 Assigned Deferred
 TUE. 31 OCT 1933
 See ch 96
 18506



Date of writing Report
 No. in Survey held Reg. Book.
 on the
 Master
 Engines made at
 Boilers made at
 Nominal Horse Power
 MULTITUBULAR
 Manufacturers
 Total Heating
 No. and Description
 Tested by hydro
 Area of Fire
 Area of each
 In case of damage
 Smallest distance
 Smallest distance
 Largest internal
 Thickness
 long. seams
 Percentage
 Percentage
 Thickness
 Material
 Length
 Dimensions
 End plate
 How attached
 Tube
 Mean
 Girders
 at center
 in edge
 Ten
 Pits
 Walls
 The
 Part
 W
 L

The Surveyors are requested not to write on or below the space for Committee's Minute.