

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 30 JUN 1943

Date of writing Report 19 When handed in at Local Office 2.10.42 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 22.9.42 Last Survey 14.10.1942

Reg. Book. on the Steel Single Screw Moving Vessel "MOORFLY" (Number of Visits 36)

Built at Goole By whom built Goole S B & Repairing Co. Ltd. Yard No. 385 Tons { Gross 457 Net 172

Engines made at Glasgow By whom made Blairs Ltd. Engine No. 3810 When built 1943

Boilers made at Leeds By whom made Clayton Son & Co. Ltd. Boiler No. When made 1943

Registered Horse Power 150 Owners Admiralty Port belonging to

Nom. Horse Power as per Rule 150 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

Trade for which Vessel is intended Moving vessel

ENGINES, &c.—Description of Engines Triple expansion

Dia. of Cylinders 12½" - 20" - 33" Length of Stroke 24" No. of Cylinders 3 Revs. per minute 3

Crank shaft, dia. of journals as per Rule 6.559" as fitted 6.578" Crank pin dia. 6.578" Crank webs Mid. length breadth 10" Mid. length thickness 4.98" Thickness parallel to axis 4.98" Thickness around eye-bolt 2½" & 3½"

Intermediate Shafts, diameter as per Rule 6.247" as fitted 6¼" Thrust shaft, diameter at collars as per Rule 6.559" as fitted 6.578"

Tube Shafts, diameter as per Rule 7.35" as fitted 7.58" Is the { screw } shaft fitted with a continuous liner { no liner }

Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule Is the after end of the liner made watertight in the propeller boss

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

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

a t If so, state type To be fitted at Goole Length of Bearing in Stern Bush next to and supporting propeller

Propeller, dia. 9'0" Pitch 7'3" No. of Blades 3 Material Bronze whether Movable no Total Developed Surface 23 sq. feet

Feed Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

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

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 Hold, &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-bones

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 ) Total Heating Surface of Boilers

Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters

No. and Description of Boilers Working Pressure

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED? If so, is a report now forwarded?

Can the donkey boiler be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers

(If not state date of approval)

Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

## SPARE GEAR.

Has the spare gear required by the Rules been supplied yes

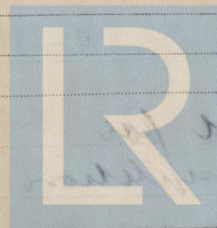
State the principal additional spare gear supplied as per attached list

The foregoing is a correct description.

For BLAIRS LIMITED,

Manufacturer.

The Macgregor Directors



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Lloyd's Register Foundation

011253-011243-0174

1941 Sep: 22 Oct: 13-27 Nov: 5-28 Dec: 3-12 (1942) Jan: 13-27-30 Mar: 2-16-18-24-2  
During progress of work in shops - - Apr: 1-13-22-29 May: 11-26 June 16-24 July: 1-6-7-8-24-31 Aug: 6-12-19-24-28 S  
Dates of Survey while building 15 Oct: 14  
During erection on board vessel - -  
Total No. of visits 2836

Dates of Examination of principal parts—Cylinders 31-7-42 Slides 1-7-42 Covers 25-3-42  
Pistons 26-5-42 Piston Rods 1-7-42 Connecting rods 1-7-42  
Crank shaft 26-5-42 Thrust shaft 27-10-41 Intermediate shafts 15-9-42  
Tube shaft - Screw shaft 6-7-42 Propeller 6-7-7-42  
Stern tube 7-7-42 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 9 Steel Identification Mark LLOYD'S 10916 Thrust shaft material 10 Steel Identification Mark LLOYD'S 367  
Intermediate shafts, material 9 Steel Identification Marks Tube shaft, material - Identification Mark -  
Screw shaft, material 9 Steel Identification Mark LLOYD'S 429 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 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 If so, state name of vessel.

General Remarks (State quality of workmanship, opinions as to class, &c.)  
The materials and workmanship are good  
The machinery has been constructed under special survey in accordance with the Society's Rules and with the Admiralty specification or as otherwise modified and approved by the Admiralty.  
Upon completion of installation on board and satisfactory conclusion of trials the machinery will, in my opinion, be eligible for classification and the records + LMC (with date) O.G.  
The machinery has been sent to Gool to be fitted in the vessel.

Est 3/10/42 [In separate Rpt 4 for fitting above machinery on board "MOORFLY" at Gool. 1555]

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

The amount of Entry Fee ... £	:	:	When applied for,
Special ... £	:	:	19.
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19.

Sh. Dams  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3 NOV 1942

Assigned Reported for completion 92 // See fee machy r/h (Hull 52050)