

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 31 JUL 1941

Date of writing Report 10 When handed in at Local Office 29.7.41 Port of GLASGOW
 No. in Survey held at GLASGOW Date, First Survey 7.11.40 Last Survey 15. July 1941
 Reg. Book. on the "Empire Baseter" (Number of Visits 26)
 Built at BARROW-IN-FURNESS By whom built VICKERS, ARMSTRONG, LD. Yard No. M05194 When built
 Engines made at GLASGOW By whom made BARCLAY CURLE & CO. Engine No. EW133 When made 1941
 Boilers made at _____ By whom made _____ Boiler No. _____ When made _____
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Rule 478 516 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____
 Trade for which Vessel is intended _____

ENGINES, &c.—Description of Engines TRIPLE EXPANSION Revs. per minute 68
 Dia. of Cylinders 23 1/2" - 37 1/2" - 68" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 13.634" as fitted 13 3/4" Crank pin dia. 13 3/4" Crank webs Mid. length breadth 20 1/2" Thickness parallel to axis 8 3/4"
 as per Rule 12.985" as fitted _____ Mid. length thickness 8 3/4" shrunk Thickness around eye-hole 6 1/8"
 Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thrust shaft, diameter at collars as per Rule 13.634" as fitted _____
 Tube Shafts, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule 14.465" as fitted _____ Is the { tube } shaft fitted with a continuous liner { screw }
 Bronze Liners, thickness in way of bushes as per Rule .74" as fitted _____ Thickness between bushes as per Rule .55" as fitted _____ 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
 shaft No If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller 5'-0 1/2"
 Propeller, dia. 18'-3" Pitch 17'-3" No. of Blades 4 Material C.I. whether Movable no Total Developed Surface 108 sq. feet
 Feed Pumps worked from the Main Engines, No. None Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 24" Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size _____ Pumps connected to the { No. and size _____
 { How driven _____ Main Bilge Line { 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 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 _____) Total Heating Surface of Boilers 7616 \square
 Forced Draft fitted Yes No. and Description of Boilers 2 SE Main 1-SE Aux. Working Pressure 220 lb.
IS A REPORT ON MAIN BOILERS NOW FORWARDED? No
IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____
 Is the donkey boiler intended to be used for domestic purposes only _____

PLAN'S. Are approved plans forwarded herewith for Shafting 23-5-40 Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 Preheaters _____ General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

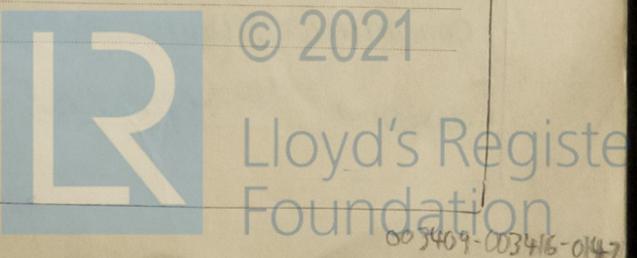
SPARE GEAR.

Is the spare gear required by the Rules been supplied Yes
 Is the principal additional spare gear supplied Not attached



The foregoing is a correct description of _____ & Co., LTD

A Macneil
 Chief Draughtsman Manufacturer.



1940 Nov: 7-20-26 Dec: 20 (1941) Jan: 6-16-24-31 Feb: 13-20-24-28 Mar: 1-10-18 Apr: 3-10 May: 5-20-26 June: 3-6-23 July: 2-8-11

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits 26

Dates of Examination of principal parts—Cylinders 10-3-41 Slides 20-2-41 Covers 10-3-41

Pistons 10-4-41 Piston Rods 10-4-41 Connecting rods 5-5-41

Crank shaft 24-2-41 Thrust shaft Intermediate shafts

Tube shaft Screw shaft Propeller

Stern tube Engine and boiler seatings Engines holding down bolts

Completion of fitting sea connections Boilers fixed Engines tried under steam

Completion of pumping arrangements Thickness of adjusting washers

Main boiler safety valves adjusted

Crank shaft material SM. Steel Identification Mark 9693 AJB Thrust shaft material Identification Mark

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

Screw shaft, material 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 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. This engine has been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. It has been sent to Glasgow in harness for installation in the vessel and the Surveyors there have been advised.

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29/7/41

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

The amount of Entry Fee ...	£ 65 : - : -	- When applied for, 29 JUL 1941
2/5 Special ...	£ 28 : 14 : -	
Donkey Boiler Fee ...	£ 40 : - : -	When received, 19
2/5 SPEC. FEE Travelling Expenses (if any) ...	£ 10 : - : -	

A. J. Brown
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 29 JUL 1941**

Assigned *Sepered*

FRI 9 JAN 1942

