

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

15 JUN 1928

14 JUNE 1928

Date of writing Report 19 When handed in at Local Office 14 JUNE 1928 Port of Liverpool
 No. in Survey held at Liverpool Date, First Survey 6 Dec 27 Last Survey 13 June 1928
 Reg. Book. 19 (Number of Visits 19)
 on the S.S. "KIRKPOOL"
 Built at Liverpool By whom built Mr James Lamb & Co Ltd Yard No. 699 Tons Gross 4840
Net 3012
 Engines made at Do By whom made George Black Ltd Engine No. 1158 when made 1928
 Boilers made at Do By whom made Do Boiler No. 1158 when made 1928
 Registered Horse Power _____ Owners The Robner Shipping Co Ltd Port belonging to W. Gerrard & Co
 Nom. Horse Power as per Rule 491 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended General

ENGINES, &c.—Description of Engines Triple expansion Revs. per minute 65
 Dia. of Cylinders 26-43-71 Length of Stroke 148 No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 13.535 Crank pin dia. 14 Crank webs Mid. length breadth 20 Thickness parallel to axis 8 1/2
 as fitted 14 Mid. length thickness 8 1/2 Thickness around eye-hole 6
 Intermediate Shafts, diameter as per Rule 12.89 Thrust shaft, diameter at collars as per Rule 13.535
 as fitted 13 1/2 as fitted 14
 Tube Shafts, diameter as per Rule _____ Screw Shaft, diameter as per Rule 14.369 Is the tube shaft fitted with a continuous liner Yes
 as fitted _____ as fitted 15 Is the screw shaft fitted with a continuous liner _____
 Bronze Liners, thickness in way of bushes as per Rule 23.6/32 Thickness between bushes as per Rule _____ Is the after end of the liner made watertight in the
 as fitted 3/4 as fitted _____ 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 _____
 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 Length of Bearing in Stern Bush next to and supporting propeller 5-3 1/2
 Propeller, dia. 17-9 Pitch 16-9 No. of Blades 4 Material CAST IRON BASS BRONZE BLADES whether Moveable Yes Total Developed Surface 104 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 1/2 Stroke 27 Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size 1 Pair Wainwright 9 1/2 x 7 x 21 GENERAL 7 1/2 x 5 x 6 Pumps connected to the { No. and size ONE, 9 x 10 x 10
 { How driven STEAM STEAM Main Bilge Line { How driven STEAM
 Ballast Pumps, No. and size ONE, 9 x 10 x 10 Lubricating Oil Pumps, including Spare Pump, No. and size NONE
 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 Four @ 3" & 1 @ 2 1/2" TUNNEL WELL
 in Holds, &c. Fore Hold 2 @ 3" Main Hold 2 @ 3 1/2" After main 2 @ 2 1/2" After 2 @ 3 1/2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 6 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size 1 @ 5" 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
 Are all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Both which are high below
 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 above
 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
 What Pipes pass through the bunkers None How are they protected _____
 What pipes pass through the deep tanks None 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 Yes
 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 Yes Is the Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from by Remote Control

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 7308 1/2
 Is Forced Draft fitted Yes No. and Description of Boilers 3. S. E. Mull. 3 SB Working Pressure 180 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? _____
 PLANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers Yes Auxiliary Boilers _____ Donkey Boilers _____
 Superheaters _____ General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:— 2 Connecting rod top end, 2 connecting rod
bottom end bolts & nuts, 2 main bearing bolts, 1 set coupling bolts,
1 set of feed & bilge pump valves, a quantity of assorted bolts & nuts,
2 inch of various sizes, 2 C.I. propeller blades, 1 propeller shaft, 1 set
spacers HP piston, 2 air pump valves, 2 main & 2 aux feed check valve
bits, 3 collar tubes, 10 boiler tubes, 1 safety valve spring,

The foregoing is a correct description,

FOR GEORGE CLARK LIMITED.

W. G. MULL

Manufacturer.



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Lloyd's Register Foundation

W 275-0087

1927. Dec. 6, 13. 1928. Jan. 10, 11, 13, 16. Feb. 3, 4, 8, 10, 15, 20, 23, 28. Mar. 1, 2, 5, 6, 8, 14, 15.
 23, 28. Apr. 3, 4, 5, 11, 13, 18, 25, 27. May 2, 3, 4, 11, 14, 16, 17, 22, 23, 31. June 4, 6, 7, 8, 11, 13.
 Dates of Survey while building } During erection on board vessel --- }
 Total No. of visits 49

Dates of Examination of principal parts—Cylinders 28/3/28. Slides 3/4/28. Covers 1/3/28.
 Pistons 20/3/28. Piston Rods 20/3/28. Connecting rods 5/3/28.
 Crank shaft 28/2/28. Thrust shaft 28/2/28. Intermediate shafts 28/2/28.
 Tube shaft ✓ Screw shaft 28/2/28. Propeller 13/4/28.
 Stern tube 31/5/28. Engine and boiler seatings 11/5/28. Engines holding down bolts 6/6/28.
 Completion of fitting sea connections 3/5/28.
 Completion of pumping arrangements 7/6/28. Boilers fixed 14/5/28. Engines tried under steam 7/6/28.
 Main boiler safety valves adjusted 4/6/28. Thickness of adjusting washers PART 1/2" 5/32" CENTRE 1/2" 3/4" STBD 1/2"
 Crank shaft material I. STEEL Identification Mark 300 PK Thrust shaft material I. STEEL Identification Mark 1038
 Intermediate shafts, material I. STEEL Identification Marks 357, 370, 371, 358 Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material S. IRON Identification Mark 570 MR. Steam Pipes, material LW. STEEL Test pressure 540° Date of Test 17/6/28
 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 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. The engines & boilers of this vessel have been built under special survey & the materials & workmanship are good & efficient. On completion the machinery was tried under full working conditions with satisfactory results.

The machinery throughout is now in a good & efficient condition & eligible in my opinion to have the notation **L.M.C.-6-28** marked in Red. The Society's Register Book also **F.D. & C.L.**

It is submitted that this vessel is eligible for **THE RECORD. + L.M.C. 6-28 F.D. C.L.**

S.A. 18/6/28
 P. J.

The amount of Entry Fee ... £ 5 : : When applied for, 11 JUNE 1928
 Special ... £ 98 : 13 : :
 Donkey Boiler Fee ... £ : : :
 Travelling Expenses (if any) £ : : : When received, 16.6.28

G. G. G. G.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 22 JUN 1928**
 Assigned **Thurs 6. 28**
F.D. C.L.
CERTIFICATE WRITTEN.

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