

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

41924

Date of writing Report 3 July 1924 When handed in at Local Office 3 July 1924 Port of West Hartlepool.
 Date, First Survey 10 July 1923 Last Survey 1 July 1924
 No. in Survey held at West Hartlepool
 Reg. Book. 28552 on the S.S. "CITY OF SALISBURY"
 Built at Dunderland By whom built Wear Shipyard of Wm Gray & Co. Yard No. 955
 Engines made at West Hartlepool By whom made Central Mex. Eng. Works Engine No. 955 when made 1924
 Boilers made at ditto By whom made ditto Boiler No. 955 when made 1924
 Registered Horse Power Owners Ellerman Lines Ltd (Hallinichin) Port belonging to Liverpool.
 Nom. Horse Power as per Rule 574 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes.

ENGINES, &c.—Description of Engines

Triple expansion
 Dia. of Cylinders $24\frac{1}{2} \times 42\frac{1}{2} \times 74$ Length of Stroke 51" Revs. per minute 73 No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 14.70 as fitted 15.5 Dia. of Crank pin 15.5 Crank webs Mid. length breadth 23.5 Mid. length thickness 9 Thickness parallel to axis 9 Thickness around eye-hole 6.5
 Diameter of Thrust shaft under collars as per rule 14.70 as fitted 15.5 Diameter of Tunnel shaft as per rule 14.70 as fitted 14.6 Diameter of Screw shaft as per rule 15.48 as fitted 16.5 Is the Screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made watertight in the propeller boss yes
 If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with 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 appliance fitted at the after end of the shaft to permit of it being efficiently lubricated no Length of Stern Bush 66" Diameter of Propeller 18.6"
 Pitch of Propeller 17.6" No. of Blades 4 State whether Moveable yes Total Surface 114 square feet.
 No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 4.5" Stroke 28" Can one be overhauled while the other is at work yes
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 2.5" Stroke 10.5" Can one be overhauled while the other is at work yes
 Total number and size of power driven Feed and Bilge Auxiliary Pumps 2 main bilge pumps 4.5" x 28" 1 Ballast dky 9" x 10.5" x 10" dup.
 No. and size of Pumps connected to the Main Bilge Line 2 main bilge pumps 4.5" x 28" 1 Ballast dky 9" x 10.5" x 10" dup.
 No. and size of Ballast Pumps 1 9" x 10.5" x 10" dup. No. and size of Lubricating Oil Pumps, including Spare Pump
 Are two independent means arranged for circulating water through the Oil Cooler No. and size of suction connected to both Main Bilge Pumps and Auxiliary and in Holds, &c. No 1 2 of 3" No 2 2 of 3"
 Bilge Pumps;—In Engine and Boiler Room 5 of 2.5" No 3 2 of 2" Deep tank 2 of 2.5" No 4 2 of 3" No 5 2 of 3"
 Tunnel well 2.5"

No. and size of Main Water Circulating Pump Bilge Suctions 1. 9" No. and size of Donkey Pump Direct Suctions
 to the Engine Room Bilges 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 connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes 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 are carried through the bunkers Fore peak suction How are they protected Strong wood casing
 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 Screw Shaft Tunnel watertight report Is it fitted with a watertight door yes worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 7986 square feet Working Pressure 225 lbs
 Is Forced Draft fitted yes No. and Description of Boilers 3 single ended
 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
 (If not state date of approval) Oil fuel Burning Piping Arrangements yes
 General Pumping Arrangements yes

SPARE GEAR. State the articles supplied:— 2 piston rod bolts & nuts 2 connec. rod ditto 2 main bearing ditto 1 set coupling ditto 1 set valves & seats for bilge pumps & Wevers feed pumps 1 set valves for gen. service, harbour feed, ballast & oil transfer pumps.
 1 H.P. piston hood & rings 1 valve spindle 1 pair crank pin bearings 1 gland & neck bush for piston rod 1 ditto for valve spindle 1 pair eccentric straps 1 air pump rod & nuts 6 piston bolts 2 main & 2 aux. feed check valves 6 boiler tubes 3 safety valve springs 2 C.I. propeller blades 1 set propeller studs & nuts for one blade. Various spare parts for centrifugal circulating pump & engine and fan engine 1 steam chest for harbour feed pump.
 Assorted iron, bolts & nuts.

The foregoing is a correct description,
 FOR THE CENTRAL MARINE ENGINE WORKS,
 (W. Gray & Co. Ltd.)

Manufacturer.

MANAGING DIRECTOR, C.M.E.W.



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Lloyd's Register
Foundation

1922. July 10. 11. 18. 24. 26. 27. 30. Aug 20. 21. 22. 24. 28. 29. 30. Sept 3. 4. 6. 7. 12. 17. 26. 11. 15. 17. 18.
 During progress of work in shops -- 19. 23. 25. 30. Nov 12. 14. 19. 22. 26. 27. 28. 29. Dec 3. 5. 10. 11. 14. 17. 20. 20. 28. 1924 Jan 4. 7. 9. 11. 17. 18. 21
 Dates of Survey while building During erection on board vessel --- 22. 23. 30. 31. Feb 5. 13. 21. 25. 28. Mar 3. 4. 5. 6. 11. 12. 16. 20. 24. 26. 27. 31. Apr 2. 3. 7. 9. 10. 11. 17. 24. 25. 28. 29.
 Total No. of visits 110

Dates of Examination of principal parts - Cylinders 21. 8. 23 - 29. 4. 24 Slides 7. 4. 24
 Covers 17. 4. 24 Pistons 5. 2. 24 - 20. 5. 24 Rods 11. 7. 23 - 21. 5. 24
 Connecting rods 11. 7. 23 - 17. 12. 23 Crank shaft 19. 11. 23 - 11. 3. 24 Thrust shaft 24. 8. 23 - 11. 3. 24
 Tunnel shafts 24. 3. 24 - 27. 5. 24. Screw shaft 3. 9. 23 - 22. 5. 24 Propeller 20. 5. 24
 Stern tube 17. 28. 4. 24 Engine and boiler seatings 3. 6. 24. Engines holding down bolts 11. 6. 24
 Completion of pumping arrangements 30. 6. 24 Boilers fixed 3. 6. 24 Engines tried under steam 27. 6. 24
 Completion of fitting sea connections 31. 14. 4. 24. Stern tube 29. 5. 24 Screw shaft and propeller 18. 6. 24
 Main boiler safety valves adjusted 27. 6. 24 Thickness of adjusting washers $PP \frac{17}{32} S \frac{1}{2} C P \frac{17}{32} S \frac{1}{2} S P \frac{17}{32} S \frac{1}{2} S$ Superh. $\frac{17}{16}$ Superh. $\frac{17}{32}$ Superh. $\frac{17}{32}$
 Material of Crank shaft Ingot Steel Identification Mark on Do. 6696N
 Material of Thrust shaft do Identification Mark on Do. 6696N
 Material of Tunnel shafts do Identification Marks on Do. 6696N
 Material of Screw shafts do Identification Marks on Do. 6696N
 Material of Steam Pipes Lap welded steel Test pressure 675 lb. Date of Test 9. 4. 24 - 19. 6. 24
 Is an installation fitted for burning oil fuel yes Is the flash point of the oil to be used over 150°F. yes
 Have the requirements of the Rules for carrying and burning oil fuel been complied with yes
 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.)

A 25 ton evaporator fitted, the coils of which were tested to 400 lb., and the shell to 50 lb per square inch.

This vessel's machinery has been built and installed under Special Survey. The materials and workmanship are good.

On completion the machinery was tried under full steam satisfactorily and is now eligible to have the notation LMC 7.24

The electric light installation has been completed and examined under working conditions and found satisfactory. The only light in a space in which goods are liable to be stacked is a portable in the boatwains store, where the fitting is in a strong cast iron case.

It is submitted that this vessel is eligible for THE RECORD. + LMC 7.24 FD. CL.

Fitted for oil fuel 7.24. FP above 150°F.

The amount of Entry Fee ... £ 6 : 0 :
 Special ... £ 103 : 14 :
 Donkey Boiler Fee ... £
 Travelling Expenses (if any) £

When applied for,

2 July 1924

When received,

1924

TUES. 8 JUL 1924

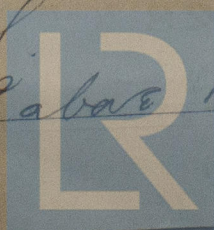
Committee's Minute

Assigned

+ Lmc 7.24 3D.
 Fitted for oil fuel 7.24 2P above 150°F

R.D. Shilston

Engineer Surveyor to Lloyd's Register of Shipping.



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