

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 25 OCT 1929

Date of writing Report 18. 10. 29 When handed in at Local Office 18. 10. 29 Port of MIDDLESBROUGH.

No. in Survey held at MIDDLESBROUGH. Date, First Survey 15 April Last Survey 17. 10. 1929

Reg. Book. 39249 Sup. the se. "APPLEDORE" (Number of Visits 49)

Gross 5217.  
Net 3149  
Tons

Built at Haverton Hill at Jers. By whom built Furness S. B. Co. Ltd. Yard No. 148. When built 1929

Engines made at Middlesbrough By whom made Richardsons, Westgarth & Co. Engine No. 2581 when made 1929.

Boilers made at Hartlepool. By whom made - do - Boiler No. 2403. when made 1929

Registered Horse Power Owners Maritime Shipping & Trading Co. Ltd. Port belonging to Bideford

Nom. Horse Power as per Rule 526.527 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 64.

Dia. of Cylinders 26" 43" 73" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3.

Crank shaft, dia. of journals as per Rule 14.07 Crank pin dia. 14 1/2" Crank webs Mid. length breadth 22" Thickness parallel to axis 8 1/4" shrunk

as fitted 14 3/8" Mid. length thickness 8 3/4" Thickness around eye-hole 6 1/2"

Intermediate Shafts, diameter as per Rule 13.4 Thrust shaft, diameter at collars as per Rule 14.07

as fitted 13 5/8" as fitted 14 1/2"

Tube Shafts, diameter as per Rule 14.9 Screw Shaft, diameter as per Rule 15 1/4" Is the shaft fitted with a continuous liner? Yes.

as fitted 14 1/2" as fitted 15 1/4"

Bronze Liners, thickness in way of bushes as per Rule 3/4" Thickness between bushes as per Rule 3/4" Is the after end of the liner made watertight in the propeller boss? Yes.

as fitted 3/4" as fitted 3/4"

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner? Yes.

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? Yes. 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' 1 1/4"

Propeller, dia. 18' 0" Pitch 17' 6" No. of Blades 4 Material Bronze whether Moveable No. Total Developed Surface 101 sq. feet

Feed Pumps worked from the Main Engines, No. none Diameter 4" Stroke 27" Can one be overhauled while the other is at work? Yes.

Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 27" Can one be overhauled while the other is at work? Yes.

Feed Pumps { No. and size 2-9 1/2" x 7 1/2" x 21" Weis; 1-8 1/2" x 8" Duplex Pumps connected to the { No. and size 1-9" x 11" x 10" Duplex

{ How driven Steam Main Bilge Line { How driven Steam

Ballast Pumps, No. and size 1-9" x 11" x 10" Duplex Lubricating Oil Pumps, including Spare Pump, No. and size 1

Are two independent means arranged for circulating water through the Oil Cooler? Yes. Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room 4-3 1/2" also 2-2 1/2" in dry lane, 1-2 1/2" in cofferdam, 1-3" in tunnel well, 1-2 1/2" direct

In Holds, &c. No 1: 2-3"; No 2: 2-3 1/2"; No 2a: 2-2 1/2"; No 3: 2-3"; No 4: 1-3" 15 aft. eng. pump.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-8" 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.

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? Forward hold suction How are they protected? Wood ceiling

What pipes pass through the deep tanks? Have they been tested as per Rule? Yes.

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 Stationing Engine Room in Engine Room.

MAIN BOILERS, &c.—(Letter for record 5.) Total Heating Surface of Boilers 7569 sq. ft.

Is Forced Draft fitted? Yes. No. and Description of Boilers 3 S.B. 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? No.

PLANS. Are approved plans forwarded herewith for Shafting? Yes. Main Boilers 26.3.29. Auxiliary Boilers. Donkey Boilers.

(If not state date of approval)

Superheaters. General Pumping Arrangements 13.3.29. Oil fuel Burning Piping Arrangements.

SPARE GEAR. State the articles supplied:—As per Rules + 1 propeller and 1 propeller shaft.

The foregoing is a correct description,

For RICHARDSONS, WESTGARTH &amp; CO. LIMITED

George Clark.

Manufacturer.

MANAGING DIRECTOR.

Per [Signature]



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Lloyd's Register  
Foundation

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During progress of work in shops - - 1929- Apr 15-22-30 May 1-6-9-16-22-28 June 3-6-8-11-13-15-18-25 July 9-11-12-18-30 Aug 1-8-12-14-19  
26-28-30 Sep 2.  
Dates of Survey while building { During erection on board vessel - - 1929- Sep 3-5-10-11-17-18-21-23-24-25-26-27 Oct 1-2-5-7-15-17  
Total No. of visits 49

Dates of Examination of principal parts—Cylinders 30. 7. 29. Slides 30. 7. 29. Covers 30. 7. 29.  
Pistons 9. 7. 29. Piston Rods 9. 7. 29. Connecting rods 30. 7. 29.  
Crank shaft 18. 7. 29. Thrust shaft 28. 8. 29. Intermediate shafts 10. 9. 29.  
Tube shaft ✓ Screw shaft 10. 9. 29. Propeller 28. 8. 29.  
Stern tube 30. 8. 29. Engine and boiler seatings 2. 9. 29. Engines holding down bolts 2. 10. 29.  
Completion of fitting sea connections 2. 9. 29.  
Completion of pumping arrangements 17. 10. 29. Boilers fixed 25. 9. 29. Engines tried under steam 17. 10. 29.  
Main boiler safety valves adjusted 7. 10. 29. Thickness of adjusting washers Port  $\frac{11}{32}$  p.  $\frac{3}{8}$  s. Centre  $\frac{5}{16}$  p.  $\frac{3}{8}$  s. Star  $\frac{3}{8}$  p.  $\frac{5}{16}$  s.  
Crank shaft material Steel Identification Mark LLOYDS No 2904 30. 5. 29 R.D.S. Thrust shaft material Steel Identification Mark LLOYDS No 2904 G 28. 8. 29 P.T.B.  
Intermediate shafts, material Steel Identification Marks LLOYDS No 2904 G 10. 9. 29 P.T.B. Tube shaft, material ✓ Identification Mark ✓  
Screw shaft, material Steel Identification Mark LLOYDS No 2904 G 10. 9. 29 P.T.B. Steam Pipes, material Steel ✓ Test pressure 600 lbs. Date of Test 2. 10. 29  
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 materials and workmanship are good. This machinery has been built under special survey, recently fitted aboard and tested under working conditions with satisfactory results and is, in my opinion, eligible for classification with record + L.M.C. 10. 29.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 10. 29 CL. F.D.

24/10/29

P. J. Mac.  
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 6-0-0 When applied for,  
Special ... £ 101-6-0 24 Oct 1929  
Donkey Boiler Fee ... £ : : When received,  
Travelling Expenses (if any) £ : : 30. 10. 29

Committee's Minute

TUE. 5 NOV 1929

Assigned

+ L.M.C. 10. 29

CERTIFICATE WRITTEN.



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