

Rpt. 4.

Sld. No. 28788 &amp; No. 16165

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

APR. 10 1924

Received at London Office THU. MAR. 20 1924

Date of writing Report 15<sup>th</sup> Mar. 1924 When handed in at Local Office 19 March 1924 Port of

WEST HARTLEPOOL

No. in Survey held at Hartlepool

Date, First Survey 16 April 1924

Last Survey 14 March 1924

Reg. Book.

(Number of Visits 94)

27970 on the S.S. "KILDALE"

Tons Gross 3877

Net 2310

When built 1924

Built at Sunderland By whom built Wm Pickersgill &amp; Sons Ltd

Yard No. 206

Engines made at Hartlepool

By whom made Richardsons Westgarth

Engine No. 2640

when made 1924

Boilers made at ditto

By whom made ditto

Boiler No. 2640

when made 1924

Registered Horse Power

Owners Rowland &amp; Barwood S. S. Co Ltd

Port belonging to Whitty

Nom. Horse Power as per Rule 345

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

## ENGINES, &amp;c.—Description of Engines

Triple expansion

Dia. of Cylinders 25"-41"-68" Length of Stroke 45" Revs. per minute 62 No. of Cylinders 3 No. of Cranks 3

Dia. of Crank shaft journals as per rule 13.03" as fitted 13 1/4" Dia. of Crank pin 13 1/2" Crank webs Mid. length breadth 19 3/4" Mid. length thickness 9" Thickness parallel to axis 9 1/8" Thickness around eye-hole 5 1/16"

Diameter of Thrust shaft under collars as per rule 13.03" as fitted 14 1/2" Diameter of Tunnel shaft as per rule 12.4" as fitted 12 1/2" Diameter of Screw shaft as per rule 13.94" as fitted 14 1/4" 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 4'-9 1/4" Diameter of Propeller 16'-9"

Pitch of Propeller 16'-9" No. of Blades 4 State whether Movable no Total Surface 889 sq. ft.

No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 27" Can one be overhauled while the other is at work yes

No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 3 3/4" Stroke 27" Can one be overhauled while the other is at work yes

Total number and size of power driven Feed and Bilge Auxiliary Pumps 1 Main feed 8 1/2" x 6" x 18" single General service 7 1/2" x 5" x 6" duplex Ball. 9" x 10 1/2" x 10" duplex

No. and size of Pumps connected to the Main Bilge Line 2 engine pumps as above &amp; ballast donkey

No. and size of Ballast Pumps One 9" x 10 1/2" x 10" duplex 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

Bilge Pumps;—In Engine and Boiler Room 3 of 2 1/2" and in Holds, &amp;c. No 1 2 of 2 3/4" No 2 2 of 3 1/4"

No 3 2 of 2 3/4" No 4 2 of 2 3/4" Tunnel 1 of 2 1/2"

No. and size of Main Water Circulating Pump Bilge Suctions One 5 1/2" No. and size of Donkey Pump Direct Suctions

to the Engine Room Bilges one 4 1/2" 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

What Pipes are carried through the bunkers none How are they protected

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 see ship report Is it fitted with a watertight door yes worked from

## MAIN BOILERS, &amp;c.—(Letter for record S)

Total Heating Surface of Boilers 5437 sq. ft.

Is Forced Draft fitted no No. and Description of Boilers 2 Single ended Working Pressure 180 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes

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

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

(If not state date of approval)

General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:—2 Bolts &amp; nuts for piston rods, 2 ditto for connecting

rods, 2 main bearing ditto, 1 set coupling ditto, 1 set feed &amp; bilge

pump valves, 2 feed check valves, 3 condenser tubes, 2 safety

valve springs, 1 propeller shaft.

Assorted bolts, nuts and iron.

The foregoing is a correct description,  
FOR RICHARDSONS, WESTGARTH & CO. LIMITED.

S. S. Co Ltd GENERAL MANAGER.

Manufacturer.



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Lloyd's Register  
Foundation



1923. Apr 16. 19. May 2. 3. 4. 7. 8. 9. 17. 28. 29. 30. 31. Jun 1. 5. 6. 12. 13. 19. 22. July 4. 11. 13. 23. 24. 25. 27. 30. 31. Aug 1. 20. 21. 24. 27. 28. 29. 31. Sept 3. 6. 7. 10. 11. 12. 21. 25. 26. 27. Oct 1. 9. 11. 18. 19. 22. 26. 29. 30. Nov 5. 16. 26. Decr 3. 7. 11. 12. 1924. Jan 16. 17. 21. 24. 28. Feb 9. 13. 13. 19. 21. 29. Mar 3. 3. 5. 6. 10. 10. 11. 12. 12. 13. 14. Sld: 24. Feb 19. Mar 19. 27. Apr 1. 2. 5

Dates of Survey while building  
During progress of work in shops --  
During erection on board vessel --  
Total No. of visits 89.

Dates of Examination of principal parts - Cylinders 27.7.23 - 11.10.23 Slides 11.10.23  
Covers 17.10.23 Pistons 11.9.23 - 30.10.23 Rods 3.5.23 - 1.10.23  
Connecting rods 17.10.23 - 28.1.24 Crank shaft 3.5.23 - 1.10.23 Thrust shaft 23.7.23 - 26.10.23  
Tunnel shafts 20.8.23 - 26.10.23 Screw shaft 3.9.23 - 21.2.24 Propeller 24.10.23  
Stern tube 19.2.24 Engine and boiler seatings 19.2.24 Sld. 5.3.24 Hbl. Engines holding down bolts 10.3.24  
Completion of pumping arrangements 14.3.24 Boilers fixed 12.3.24 Engines tried under steam 13.3.24  
Completion of fitting sea connections 19.2.24 Sld. Stern tube 3.3.24 Screw shaft and propeller 5.3.24  
Main boiler safety valves adjusted 13.3.24 Thickness of adjusting washers P.P. 5/16" S 5/16" full S 5/16"  
Material of Crank shaft S.M. Ingot Steel. Identification Mark on Do. N° 6508 A.O.  
Material of Thrust shaft ditto. Identification Mark on Do. N° 6640 CK.  
Material of Tunnel shafts ditto. Identification Marks on Do. N° 6636-7-8-9 A.O. 6643-4 CK  
Material of Screw shafts Working & Spare. ditto Identification Marks on Do. N° 6640-2 CK  
Material of Steam Pipes Lap welded steel Test pressure 540 lbs. Date of Test 12.3.24  
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. This vessel's machinery has been built and installed under Special Survey. The materials and workmanship are good and efficient.

On completion it was tried under working conditions under full steam and found satisfactory, and will be eligible to have the notation  $\boxplus$  L.M.C with date, on completion of the survey. To complete the machinery survey the securing of steam pipes is to be completed, the pumping connections in holds and Tunnel are to be completed and the spare gear examined on board. This will be done at Sunderland. Sunderland Surveyors advised.

Steam pipes now secured as recommended. Pumping arrangements in holds and tunnel completed, spare gear put on board and examined. The machinery is eligible in my opinion to have record of  $\boxplus$  L.M.C. 4. 24

It is submitted that this vessel is eligible for THE RECORD.  $\boxplus$  LMC 4. 24. CL. L.A. Hake

The amount of Entry Fee ... £ 5 : 0 :  
Special ... £ 76 : 15 :  
Donkey Boiler Fee ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, 19 Mar 1924  
When received, 31 Mar 1924

T.C.D. Shilstone & Co. Ltd.  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 15 APR. 1924  
Assigned L.M.C. 4. 24. C.L.

