

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Received at London Office

Date of writing Report 17<sup>th</sup> Nov 1923 When handed in at Local Office 22 Nov 1923 Port of WEST HARTLEPOOL

No. in Survey held at Hartlepool Date, First Survey 6 April 1923 Last Survey 16 Nov 1923  
Reg. Book. 41121 on the S S "THROCKLEY" (Number of Visits 69 } 75 Gross 1925  
Tons } Net 1465

Built at Middlesbrough By whom built Furness S.B. & Co. Ltd. Yard No. 49 When built 1923

Engines made at Hartlepool By whom made Richardsons Westgarth & Co. Ltd. Engine No. 2642 when made 1923

Boilers made at ditto By whom made ditto Boiler No. 2642 when made 1923

Registered Horse Power Owners Furness Withy & Co. Ltd. Port belonging to Newcastle

Nom. Horse Power as per Rule 335 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple expansion.

Dia. of Cylinders 24"-40"-65" Length of Stroke 42 Revs. per minute 68. No. of Cylinders 3 No. of Cranks 3

Dia. of Crank shaft journals as per rule 12.42" Dia. of Crank pin 13" Crank webs Mid. length breadth 19 5/8" Thickness parallel to axis 7 3/8" as fitted 12 5/8" Mid. length thickness 7 3/8" shrunk Thickness around eye-hole 5 3/4"

Diameter of Thrust shaft under collars as per rule 12.42" Diameter of Tunnel shaft as per rule 11.83" Diameter of Screw shaft as per rule 13.39" Is the Screw shaft as fitted 12" as fitted 13 5/8"

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 4-6 3/4" Diameter of Propeller 16'-0"

Pitch of Propeller 17'-0" No. of Blades 4 State whether Moveable no Total Surface 84 ft<sup>2</sup> square feet.

No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 3 1/2" 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 1/2" 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 2 feed 8 1/2" x 6" x 18" 1 general 7 1/2" x 8" duplex

No. and size of Pumps connected to the Main Bilge Line 2 bilge 3 1/2" x 27" 2 Ballast 12 3/4" x 13 1/4" x 12" single

No. and size of Ballast Pumps 2 12 3/4" x 13 1/4" x 12" No. and size of Lubricating Oil Pumps, including Spare Pump 1

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, &c. 2 of 2 1/2" in each

1 of 3 1/2" in tunnel

No. and size of Main Water Circulating Pump Bilge Suctions 1 of 7" No. and size of Donkey Pump Direct Suctions

to the Engine Room Bilges Well 4" 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 none How are they protected 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 Screw Shaft Tunnel watertight report Is it fitted with a watertight door yes worked from Cylinder grating

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 5679 sq. ft

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

IS A REPORT ON MAIN BOILERS NOW FORWARDED? no. sent with report S S Eldon

IS A DONKEY BOILER FITTED? yes If so, is a report now forwarded? No. Yes. Gls No. 42832

PLANS. Are approved plans forwarded herewith for Shafting no Main Boilers 20-3-23 Auxiliary Boilers yes Donkey Boilers yes

(If not state date of approval)

General Pumping Arrangements yes Oil fuel Burning Piping Arrangements no

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 feed, bilge, air and general service pump valves, 1 circulating pump impeller.

2 feed check valves, 2 safety valve springs, 6 condenser tubes, 12 boiler tubes, various spare parts for circulating engine.

The foregoing is a correct description.  
For RICHARDSONS, WESTGARTH & Co. LIMITED.

L. Spaight  
DIRECTOR & JOINT GENERAL MANAGER.

Manufacturer.

FRI. JAN. 11 1924



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KEVIN Register  
Foundation

U1220-0236



1923. April 6. 18. 20. 21. 27. May 1. 3. 4. 7. 8. 24. 30. Jun 4. 7. 8. 14. 19. 22. 23. 28. 29. July 3. 4. 5. 6. 9. 17. 19. 23. 24. 27. 30. 31. Aug 1. 21. 22. 24. 29. 31. Sept 4. 6. 10. 13. 21. 25. 26. Oct 5. 18. 19. 22. 23. 24. 29. Nov 1. 2. 5. 7. 7. 9. 13. 13. 14. 15. 16.

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits 69.

Dates of Examination of principal parts - Cylinders 17. 5. 31. 7. 23. 22. 8. 23. Slides 29. 8. 23

Covers 29. 8. 23 Pistons 31. 8. 21. 9. 23 Rods 18. 4. 5. 31. 7. 23

Connecting rods 3. 7. 16. 30. 7. 23 Crank shaft 7. 5. 16. 21. 8. 23 Thrust shaft 23. 10. 23

Tunnel shafts 23. 9. 26. 10. 23 Screw shaft 4. 9. 23 Propeller 1. 8. 23

Stern tube 31. 7. 23 Engine and boiler seatings 2. 11. 23 Engines holding down bolts 7. 11. 23

Completion of pumping arrangements 16. 11. 23 Boilers fixed 7. 11. 23 Engines tried under steam 16. 11. 23

Completion of fitting sea connections 6. 12. 23 Stern tube 29. 10. 23 Screw shaft and propeller 2. 11. 23

Main boiler safety valves adjusted 16. 11. 23 Thickness of adjusting washers

Material of Crank shaft S. M. Ingot Steel Identification Mark on Do. 6527 L.K. R.D.S.

Material of Thrust shaft ditto Identification Mark on Do. 6605 A.O. R.D.S.

Material of Tunnel shafts ditto Identification Marks on Do. 6609 L.K. 6617 L.K. 6619 L.K. 6616 L.K. 6618 L.K. 6625 A.O.

Material of Screw shafts Lockfast iron Identification Marks on Do. 6360 R.D.S.

Material of Steam Pipes S.D. Copper Test pressure 360 lb. Date of Test 9. 11. 23

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 yes If so, state name of vessel Eldon. Apr Rpt 16. 12. 23.

General Remarks (State quality of workmanship, opinions as to class, &c. This vessels machinery has been built and installed under Special Survey. The materials and workmanship are good. On completion the main engines, main boilers and auxiliaries examined at work under full steam at mooring satisfactorily. The vessel has returned to Middlesbrough for completion. There remains to be done the completion of pumping connections in tanks and holds. The margin plates and doors in the well at after end of the engine room to be perforated, the spare gear put on board, and the fitting of the donkey boiler completed.

On completion this vessels machinery will be eligible to have the notation  $\boxplus$  L.M.C. with date.

The survey has now been satisfactorily completed in accordance with the above and renders the vessel eligible in my opinion to have the notation of  $\boxplus$  L.M.C.-12.23 in the Register Book.

W. Morrison

Note:- The vessel is fitted with Electric Light and "wireless"

The amount of Entry Fee ... £ 5 : 0 : When applied for, 22 Nov 23.

Special ... £ 75 : 5 : When received, 28 Nov 23.

Donkey Boiler Fee ... £ : : 28 Nov 23.

Travelling Expenses (if any) £ : : 28 Nov 23.

Committee's Minute FRI. DEC. 28. 1923

Assigned + L.M.C. 12.23 C.L.

R.D. Shilston.

Engineer Surveyor to Lloyd's Register of Shipping



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