

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 10 JAN 1929

Date of writing Report 8. 1. 1929 When handed in at Local Office 8. 1. 1929 Port of MIDDLESBROUGH.

No. in Survey held at SOUTH BANK ON TEES. Date, First Survey Nov 21st 1924 Last Survey 8. 1. 1929.
Reg. Book. on the "ROYSTON" (Number of Visits 23.)

Built at SOUTH BANK By whom built Smiths Dock Co Ltd. Yard No. 844. When built 1929.

Engines made at do. By whom made do. Engine No. 312. when made 1929.

Boilers made at Hartlepool By whom made Richardson, Westgarth & Co. Boiler No. D. 178. when made 1928.

Registered Horse Power Owners The Granta Steam Shipping Co. Ltd. Port belonging to Newcastle

Nom. Horse Power as per Rule 266 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Y.

Trade for which Vessel is intended Collier

ENGINES, &c.—Description of Engines Triple Expansion. Revs. per minute 73.

Dia. of Cylinders 21" 35" 57" Length of Stroke 42" No. of Cylinders 3. No. of Cranks 3.

Crank shaft, dia. of journals as per Rule 11.23. Crank pin dia. 11" Crank webs Mid. length breadth 18" Mid. length thickness 7" Thickness parallel to axis 7" Thickness around eye-hole 5"

Intermediate Shafts, diameter as per Rule 10.7. Thrust shaft, diameter at collars as per Rule 11.23.

Tube Shafts, diameter as fitted Screw Shaft, diameter as fitted 12.03. Is the tube screw shaft fitted with a continuous liner Y.

Bronze Liners, thickness in way of bushes as per Rule 32. Thickness between bushes as per Rule 17. Is the after end of the liner made watertight in the propeller boss Y. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Y.

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 Y.

If two liners are fitted, is the shaft lapped or protected between the liners Y. Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft Y. If so, state type Y.

Propeller, dia. 16'-0" Pitch 15'-2" No. of Blades 4. Material C.D. whether Moveable no. Total Developed Surface 77 sq. feet

Feed Pumps worked from the Main Engines, No. 2. Diameter 3" Stroke 22" Can one be overhauled while the other is at work Y.

Bilge Pumps worked from the Main Engines, No. 2. Diameter 3" Stroke 22" Can one be overhauled while the other is at work Y.

Feed Pumps { No. and size 1-6"x4"x6" Pumps connected to the { No. and size 1-10"x11"x10" How driven Steam 1-2" Injection Main Bilge Line How driven Steam

Ballast Pumps, No. and size 1-10"x11"x10" Lubricating Oil Pumps, including Spare Pump, No. and size Y.

Are two independent means arranged for circulating water through the Oil Cooler Y. Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3-2 1/2" & 1-2 1/4" tunnel well.

In Holds, &c. No. 1: 2-2 1/2"; No. 2: 2-2 1/2"; No. 3: 2-2 1/2"; No. 4: 2-2 1/2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-6" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1-4" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Y.

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 Y.

Are all Sea Connections fitted direct on the skin of the ship Y. 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 Y. 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 Y. Are the Blow Off Cocks fitted with a spigot and brass covering plate Y.

What Pipes pass through the bunkers Forward suction How are they protected Wood ceiling

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

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Y.

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 Y. Is the Shaft Tunnel watertight Y. Is it fitted with a watertight door Y. worked from E.R. main deck level.

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 4554 sq. ft.

Is Forced Draft fitted no. No. and Description of Boilers 258. Working Pressure 180 lbs.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Y.

IS A DONKEY BOILER FITTED? no. If so, is a report now forwarded? Y.

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

(If not state date of approval)

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

SPARE GEAR. State the articles supplied:—As per Rules + I.C.D. Propeller; 1 set air pump valves; 1 main check valve; 1 auxiliary check valve; 12 pump ring bolts; 1/2 set donkey pump valves; 1/2 set ballast pump valves; quantity boiler tubes, condenser tube, firebars, gauge glasses & washers.

The foregoing is a correct description,

J. D. Stevens

Manufacturer.

3/1/29



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If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

NOTE.—The words which do not apply should be deleted.

1927 Nov 21. 1928 Jan 3. May 14. Aug 16. Sep 3. 11. 19. 26. Oct 13. 19. 30. Nov 6.
 During progress of work in shops - - 19. 23. Dec 4. 6. 8. 11. 12. 19. 29. 1929 Jan 3. 8.
 Dates of Survey while building {
 During erection on board vessel - - - {
 Total No. of visits 23.

Dates of Examination of principal parts—Cylinders 19. 9. 28. Slides 30. 10. 28. Covers 19. 10. 28.
 Pistons 19. 9. 28. Piston Rods 19. 9. 28. Connecting rods 19. 10. 28.
 Crank shaft 11. 9. 28. Thrust shaft 6. 11. 28. Intermediate shafts 12. 12. 28.
 Tube shaft ✓ Screw shaft 23. 11. 28. Propeller 19. 10. 28.
 Stern tube 15. 10. 28 Engine and boiler seatings 6. 12. 28. Engines holding down bolts 12. 12. 28.
 Completion of fitting sea connections 23. 11. 28.
 Completion of pumping arrangements 19. 12. 28. Boilers fixed 12. 12. 28. Engines tried under steam 8. 1. 29.
 Main boiler safety valves adjusted 19. 12. 28. Thickness of adjusting washers Port $p \frac{1}{2} s \frac{9}{16}$ Star $p \frac{9}{16} s \frac{17}{32}$
 Crank shaft material Steel Identification Mark LLOYD NO 1741 L. Thrust shaft material Steel Identification Mark LLOYD NO 8082 J.P. 31. 5. 29.
 Intermediate shafts, material Steel Identification Marks LLOYD NO 8082 J.P. 31. 5. 29. 31. 5. 28. 3 Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark LLOYD NO 8082 J.P. 31. 5. 29. Steam Pipes, material Copper Test pressure 360 lbs. Date of Test 12. 1.
 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 the use of oil as fuel been complied with ✓
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo no. If so, have the requirements of the Rules been complied with ✓
 Is this machinery duplicate of a previous case Ys. If so, state name of vessel ss. "Quickolép" (Mal. Reg 13204)

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 in accordance with the Rules and Approved Plans, securely fitted aboard and tested with satisfactory results under steam and is, in my opinion, suitable for classification with record + L.M.C. 1.29.

It is submitted that
 this vessel is eligible for
 THE RECORD. L.M.C 1.29. C.L.

11/1/29

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

The amount of Entry Fee £ 4-0-0 When applied for, 9. 1. 1929
 3/5 Special Mal. £ 38-18-0
 2/5 Hpe £ 26-0-0
 Donkey Boiler Fee £ : :
 Travelling Expenses (if any) £ : :
 When received, 19. 1. 29 (L22187)
 24. 1. 29 (L26)

Committee's Minute
 Assigned
 TUE. 15 JAN 1929
 + L.M.C 1.29 C.L.
 CERTIFICATE WRITTEN

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