

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 6 MAR 1930

Date of writing Report 4. 3. 1930 When handed in at Local Office 4. 3. 1930 Port of MIDDLESBROUGH.

No. in Survey held at SOUTH BANK. Date, First Survey 18 Sept/29 Last Survey 3. 3. 1930.  
Reg. Book. (Number of Visits 22)

41012 Sup. the ss "KYLOR" Tons { Gross 2822.  
Net 1662.

Built at South Bank. By whom built Smiths Dock Co Ltd Yard No. 892 When built 1930.

Engines made at do. By whom made do. Engine No. 359 when made 1930

Boilers made at Hurtlepool By whom made Richardsons, Westgate, Co. Boiler No. D. 193 when made 1929.

Registered Horse Power Owners Sharp S.S. 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 Ye.

Trade for which Vessel is intended Collier

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

Dia. of Cylinders 21" 35" 57½" Length of Stroke 42" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 11.23 as fitted 11½" Crank pin dia. 11½" Crank webs Mid. length breadth 18½" Thickness parallel to axis 7¼" shrunk  
Mid. length thickness 7¼" Thickness around eye-hole 5"

Intermediate Shafts, diameter as per Rule 10.7 as fitted 10¾" Thrust shaft, diameter at collars as per Rule 11.23 as fitted 11½"

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 12.03 as fitted 12½" Is the screw shaft fitted with a continuous liner Ye.

Bronze Liners, thickness in way of bushes as per Rule 32 as fitted 11" Thickness between bushes as per Rule 7 as fitted 7" Is the after end of the liner made watertight in the propeller boss Ye. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓

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 ✓

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

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

Feed Pumps worked from the Main Engines, No. 2 Diameter 3¼" Stroke 22" Can one be overhauled while the other is at work Ye.

Bilge Pumps worked from the Main Engines, No. 2 Diameter 3¼" Stroke 22" Can one be overhauled while the other is at work Ye.

Feed Pumps { No. and size 2-6" x 4¼" x 6" Duplex. Pumps connected to the Main Bilge Line { No. and size 1-10" x 11" x 10" Duplex.  
How driven Steam How driven Steam

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

Are two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3-2½" x 1-2¼" in tunnel well  
In Holds, &c. 2-2½" in each No. 1, 2, 3 & 4 holds.

**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 Ye.

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 Ye.

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

What Pipes pass through the bunkers none. How are they protected ✓

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

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

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 Ye. Is the Shaft Tunnel watertight Ye. Is it fitted with a watertight door Ye. worked from ER. CUL. PLATFORM.

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

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

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Ye.

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

**PLANS.** Are approved plans forwarded herewith for Shafting ✓ Main Boilers 26. 2. 29 Auxiliary Boilers ✓ Donkey Boilers ✓  
(If not state date of approval)

Superheaters ✓ General Pumping Arrangements 13. 7. 29. Oil fuel Burning Piping Arrangements ✓

**SPARE GEAR.** State the articles supplied:— As per Rules + 1 C.I. Propeller, 1 set air pump valves; 1 main + 1 auxiliary check valve; 12 junction bolts; ½ set donkey pump valve; ½ set ballast pump valve; quantity boiler and condenser tubes, firebars, gauge glasses and washers.

The foregoing is a correct description, FOR SMITH'S DOCK COMPANY, LTD.

J. Ostens Manufacturer. Engine Works Manager



003434-003443-0370

Dates of Survey while building

During progress of work in shops -- 1929: Sep 18. Oct 4. 22. 30 Nov 5. 8. 18. 25. 29. 30 Dec 18. 1930 Jan 10

During erection on board vessel --- 1930: Jan 13. 20. 22. 29. 30 Feb 1. 4. 5. 10 Mar 3

Total No. of visits 22

Dates of Examination of principal parts—Cylinders 30. 10. 29 Slides 5. 11. 29. Covers 30. 10. 29.

Pistons 5. 11. 29 Piston Rods 5. 11. 29 Connecting rods 25. 11. 29

Crank shaft 18. 11. 29 Thrust shaft 18. 11. 29 Intermediate shafts 18. 11. 29.

Tube shaft ✓ Screw shaft 18. 12. 29 Propeller 18. 12. 29.

Stern tube 18. 12. 29. Engine and boiler seatings 22. 1. 30 Engines holding down bolts 1. 2. 30.

Completion of fitting sea connections 13. 1. 30.

Completion of pumping arrangements 3. 3. 30. Boilers fixed 1. 2. 30. Engines tried under steam 3. 3. 30.

Main boiler safety valves adjusted 10. 2. 30. Thickness of adjusting washers Port p  $\frac{7}{16}$  S  $\frac{3}{8}$  Star p  $\frac{9}{32}$  S  $\frac{3}{8}$

Crank shaft material Steel Identification Mark LLOYDS NO 292 J.H. 6.9.29 Thrust shaft material Steel Identification Mark LLOYDS NO 293 J.H. 6.9.29

Intermediate shafts, material Steel Identification Marks LLOYDS NO 295 J.H. 6.9.29 Tube shaft, material ✓ Identification Mark ✓

Screw shaft, material Steel Identification Mark LLOYDS NO 294 J.H. 6.9.29 Steam Pipes, material Copper Test pressure 360 lbs. Date of Test 4. 2. 30.

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 4. If so, state name of vessel "GLANTON" (Tab. Rpt 13884).

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 under working conditions with satisfactory results and is, in my opinion, suitable for classification with record + L.M.C. 3.30.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 3.30 Cl.

J.S.A.  
7/3/30

M. J. Man.  
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 4.0.0. When applied for,  
Special Res. Boilers £ 37.4.0. 5-3-1930  
Donkey Boiler Fee ... £ : : When received,  
Travelling Expenses (if any) £ : : 15-3-30

Committee's Minute TUE. 11 MAR 1930  
Assigned + L.M.C. 3.30 Cl.

CERTIFICATE WRITTEN.



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

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