

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 16 AUG 1927

Writing Report 15 AUG 1927 When handed in at Local Office 15 AUG 1927 Port of Hull

Survey held at Hull. Date, First Survey 11 March Last Survey 9 August 1927.  
 Book. (Number of Vols) 19 Gross 352-37  
 on the S. Trawler "KINGSTON ONYX" Tons Net 145-75  
 at Beverley. By whom built Cook, Welton & Gemmill. Yard No. 488. When built 1927.  
 Engines made at Hull By whom made Charles Holmes & Co L5 Engine No. 1312 when made 1924  
 Boilers made at Hull By whom made Charles Holmes & Co L5 Boiler No. 1312 when made 1924  
 Indicated Horse Power Owners Kingston Steam Trawling Co Ltd. Port belonging to Hull  
 Horse Power as per Rule 96.4. Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.  
 for which Vessel is intended Fishing.

**ENGINES, &c.**—Description of Engines Triple Expansion  
 No. of Cylinders 3. Length of Stroke 26. No. of Cranks 3. Revs. per minute 112  
 No. of Cranks 3  
 Shaft, dia. of journals as per Rule 6.9 as fitted 4.5 Crank pin dia. 4.5 Crank webs Mid. length breadth 14.4 Mid. length thickness 4.76 shrunk Thickness parallel to axis 4.76 Thickness around eye-hole 3.3/8  
 Intermediate Shafts, diameter as per Rule as fitted Thrust shaft, diameter at collars as per Rule 6.9 as fitted 4.5  
 Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 4.4 as fitted 8.2 Is the tube shaft fitted with a continuous liner Yes  
 Liners, thickness in way of bushes as per Rule as fitted 3/16 Thickness between bushes as per Rule as fitted 3/8 Is the after end of the liner made watertight in the boss Yes 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 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 3'-0"  
 Propeller, dia. 9'-9" Pitch 10'-10 1/2 No. of Blades 4 Material Cd. whether Moveable No Total Developed Surface 34.75 sq. feet  
 Pumps worked from the Main Engines, No. One Diameter 2 7/8 Stroke 14 3/4 Can one be overhauled while the other is at work Yes  
 Pumps worked from the Main Engines, No. One Diameter 2 7/8 Stroke 14 3/4 Can one be overhauled while the other is at work Yes  
 No. and size 6 x 4 1/2 x 6 Pumps connected to the Main Bilge Line No. and size 6 x 4 1/2 x 6 + 3" Ejector How driven Steam  
 Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size  
 independent means arranged for circulating water through the Oil Cooler  
 Pumps, — In Engine and Boiler Room 2 @ 2" dia 5 @ 2" dia  
 Suctions, connected to both Main Bilge Pumps and Auxiliary Pumps, &c.

Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 3" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes  
 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  
 Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Both  
 placed 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  
 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  
 Pipes pass through the bunkers Forward Suctions How are they protected Wood casing  
 Pipes pass through the deep tanks Have they been tested as per Rule Yes  
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes  
 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 Is it fitted with a watertight door worked from

**BOILERS, &c.**—(Letter for record 5) Total Heating Surface of Boilers 1698 Sq. ft.  
 Draft fitted No. No. and Description of Boilers One Single Ended Working Pressure 200 Lbs.  
 REPORT ON MAIN BOILERS NOW FORWARDED?  
 DONKEY BOILER FITTED? If so, is a report now forwarded?

S. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers  
 (If not state date of approval)  
 General Pumping Arrangements Oil fuel Burning Piping Arrangements

**EXCESSIVE GEAR.** State the articles supplied:—2 Top end bolts & nuts. 2 Bottom end bolts & nuts. 2 bearing bolts & nuts. Set of coupling bolts & nuts. Set of feed and pump valves. Safety valve springs. Main & donkey check valves & seats. 3 Condenser tubes. Impeller & shaft for centrif. pump. Pump ram, with pump & hook ring. Spare valves for feed pump. Assorted bolts & nuts.

The foregoing is a correct description,

For CHARLES D. HOLMES & Co. LTD.

*W. Cooper*

Manufacturer.



© 2021 Lloyd's Register Foundation

1927. Mar 11. Apr 25. May 9. 14. 20. 27. June 13. 15. 23. 30. ~~July 1. 8. 15. 22. 29.~~  
 July 6. 11. 18. 19. 23. 27. 30. Aug 6. 9.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits 19

Date of writing Report  
 No. in Survey Reg. Book.  
 11903  
 Master  
 Engines made at  
 Boilers made at  
 Nominal Horse Power

Dates of Examination of principal parts—Cylinders 6, 7, 27. Slides 6, 7, 27. Covers 6, 7, 27.  
 Pistons 15, 6, 27. Piston Rods 15, 6, 27. Connecting rods 6, 7, 27.  
 Crank shaft 23, 6, 27. Thrust shaft 27, 5, 27. Intermediate shafts ✓  
 Tube shaft ✓. Screw shaft 14, 5, 27. Propeller 9, 5, 27.  
 Stern tube 9, 5, 27. Engine and boiler seatings 23, 7, 27. Engines holding down bolts 27, 7, 27.  
 Completion of fitting sea connections 15, 6, 27.  
 Completion of pumping arrangements 6, 8, 27. Boilers fixed 23, 7, 27. Engines tried under steam 6, 8, 27.  
 Main boiler safety valves adjusted 6, 8, 27. Thickness of adjusting washers 3/8"  
 Crank shaft material Steel. Identification Mark L.R. 257. J.K.W. Thrust shaft material Steel. Identification Mark L.R. 257. J.H.M.  
 Intermediate shafts, material ✓. Identification Marks ✓. Tube shaft, material ✓. Identification Mark ✓.  
 Screw shaft, material Steel. Identification Mark L.R. 257. J.H.M. Steam Pipes, material Copper. Test pressure 450. Date of Test 30, 7, 27.  
 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 ✓

MULTITUBULAR  
 Manufacturers of  
 Total Heating Surface  
 No. and Description  
 Tested by hydraulic  
 Area of Firegrate  
 Area of each set  
 In case of donkey  
 Smallest distance  
 Smallest distance  
 Largest internal  
 Thickness  
 long seams 7  
 Percentage of str  
 Percentage of str

Is this machinery duplicate of a previous case Yes. If so, state name of vessel Kingston Topaz.  
 General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been built under special survey and the material and workmanship, are sound and good. The engines, boilers and pumping arrangements, have all been tried under working conditions and found in order.  
 The machinery is eligible, in my opinion, to have record in the Register Book, of + L.M.C. 8, 27. C.L.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 8.27 C.L.  
 J.K.W.  
 16/8/27

The amount of Entry Fee ... £ 2 : 0 : 0  
 Special ... £ 24 : 0 : 0  
 Donkey Boiler Fee ... £ : :  
 Travelling Expenses (if any) £ : :  
 When applied for 15 Aug 1927  
 When received, 1. 9. 27

John K. Williams, J.L. Smith.  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 19 AUG 1927

Assigned + L.M.C. 8.27 C.L.



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

CERTIFICATE WRITTEN