

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

5 APR 1935

Date of writing Report 10 When handed in at Local Office 4 APR 1935 Port of HULL

No. in Survey held at Hull Date, First Survey 6th Dec. 1934 Last Survey at April 1935
 Reg. Book. on the Steel S.K. "Kingston Cairngorm" (Number of Visits 2)

Gross Tons 448.08
 Net Tons 173.79

Built at Beverley By whom built Cook, Welton & Gemmell Ltd., Yard No. 601 When built 1935, 4

Engines made at Hull By whom made Charles D. Holmes & Co. Ltd. Engine No. 1474 When made 1935

Boilers made at Hull By whom made Charles D. Holmes & Co. Ltd. Boiler No. 1474 When made 1935

Registered Horse Power Owners Kingston Steam Trawling Co. Ltd. Port belonging to Hull

Nom. Horse Power as per Rule 117 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Yes

Trade for which Vessel is intended Fishing

ENGINES, &c.—Description of Engines Reciprocating - Compound Revs. per minute

Dia. of Cylinders 13 1/2" + 27" Length of Stroke 27" No. of Cylinders 2 No. of Cranks 2

Crank shaft, dia. of journals as per Rule 7.6" as fitted 7.45" Crank pin dia. 7.75" Crank webs Mid. length breadth 12" Thickness parallel to axis 5" Mid. length thickness 5" shrunk Thickness around eye-hole 3 1/2"

Intermediate Shafts, diameter as per Rule 7.2" as fitted 7.625" Thrust shaft, diameter at collars APPROVED. as per Rule 220 to 205 MM. as fitted 220 to 205 MM.

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 8.03" as fitted 8.375" Is the screw shaft fitted with a continuous liner? Yes

Bronze Liners, thickness in way of bushes as per Rule 17.28/32" as fitted 18/32" Thickness between bushes as per Rule 13/32" as fitted 15/32" 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 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 no If so, state type Length of Bearing in Stern Bush next to and supporting propeller 36"

Propeller, dia. 10'6" Pitch 11' No. of Blades 4 Material C.I. whether Moveable no Total Developed Surface 39 sq. feet

Feed Pumps worked from the Main Engines, No. One Diameter 3" Stroke 13 1/2" Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. One Diameter 3" Stroke 13 1/2" Can one be overhauled while the other is at work

Feed Pumps No. and size Duplex 7x5x6" Pumps connected to the Main Bilge Line No. and size Duplex 7x5x6" + Ejector 3" line. How driven Steam

Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size Two 5 1/2" x 6" x 15"

Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 2 @ 2" dia. In Pump Room In Holds, &c. 5 @ 2" dia.

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 4 1/4" dia Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 3" Ejector 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 Sea Connections fitted direct on the skin of the ship Yes 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 Yes 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 Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What Pipes pass through the bunkers Forward Suctions How are they protected Wood casings

What pipes pass through the deep tanks Have they been tested as per Rule 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 Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record "S") Total Heating Surface of Boilers 1940 sq ft

Is Forced Draft fitted no No. and Description of Boilers One Single Ended Working Pressure 215 #/sq"

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

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

Is the donkey boiler intended to be used for domestic purposes only

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

(If not state date of approval)

Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied One set of air pump valves, Main + donkey check valve seats, Impeller + shaft for centrifugal pump, Top + bottom end bolts for cent. pump, Valves for duplex pump, Feed pump ram, Safety valve spring.

The foregoing is a correct description, For CHARLES D. HOLMES & CO., LTD.

W. Cooper

Manufacturer.



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During progress of work in shops - - 1934 - Dec. 6, 19, 24.
 Dates of Survey while building }
 During erection on board vessel - - - } 1935 - Jan. 10, 14, 21, 24, 31, Feb. 7, 8, 11, 13, 15, 19, 26.
 }
 } Mar. 8, 19, 22, 29, Apr. 1.
 Total No. of visits 20

Dates of Examination of principal parts - Cylinders 8-2-35 Slides 8-2-35 Covers 8-2-35
 Pistons 8-2-35 Piston Rods 8-2-35 Connecting rods 8-2-35
 Crank shaft 26-2-35 Thrust shaft Please see New Report 92276 Intermediate shafts 7/2/35 and 11/2/35
 Tube shaft ✓ Screw shaft 10/1/35 Propeller 19/2/35
 Stern tube 8/2/35 Engine and boiler seatings 19/3/35 Engines holding down bolts 19/3/35
 Completion of fitting sea connections 19/2/35
 Completion of pumping arrangements 19/3/35 Boilers fixed 19/3/35 Engines tried under steam 1/4/35
 Main boiler safety valves adjusted 29/3/35 Thickness of adjusting washers P 13/32" S 3/8"
 Crank shaft material Steel Identification Mark 954 Thrust shaft material See New Rep. Identification Mark ✓
 Intermediate shafts, material Steel Identification Marks 954 Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark 954 Steam Pipes, material S.D. Copper Test pressure 430 lb Date of Test 22/3/35
 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 ✓
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with ✓
 Is this machinery duplicate of a previous case Yes If so, state name of vessel "Kingston beylonite" ✓

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel (see also Newcastle Report 92276) has been built under special survey in accordance with the approved plans and the rules.

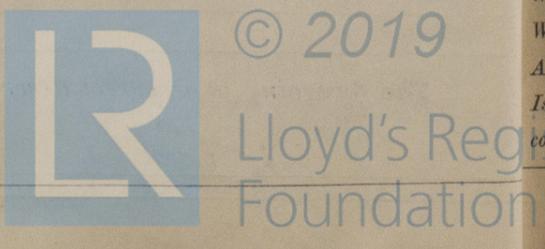
The workmanship and materials are sound and good and when tried under steam, the machinery was found good. It is eligible in my opinion, to be classed with record F.L.M.C. 4.35

The Newcastle Report No 92276 on the turbine of this installation is forwarded herewith.

The amount of Entry Fee ... £ 3 : 0 :
 REAT. Special ... £ 25 : 17 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 4 APR 1935
 When received, 2/5/35

L. Kuffatt.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 9 APR 1935
 Assigned + Linc 4 35
 Ch



pt. 4a.
 Date of writing
 No. in Survey Reg. Book.
 Built at
 Engines made
 Boilers made
 Shaft Horse
 Nom. Horse
 Trade for use
 TEAM T
 No. of Turbines
 direct coupled
 for supplying power
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 TURBINE
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 Shaft Horse
 Rotor Shaft
 Distance between
 Flexible Pin Shafts, diam
 Wheel Shaft
 Intermediate
 Screw Shaft
 Thickness between
 made by fusion
 plastic material
 or other applia
 Propeller, diam
 If Single Screw
 Condenser
 Pumps connected
 Ballast Pump
 Are two independent
 Pumps, No. and
 In Holds, &c.
 Main Water
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 Are they fixed
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 What pipes pass
 What pipes pass
 Are all Pipes,
 Is the arrangement
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Certificate to be sent to
 The Surveyors are requested not to write on or below the space for Committee's Minute.