

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

11 MAY 1935

10 MAY 1935

Received at London Office

Date of writing Report 19 When handed in at Local Office 10 Port of Hull

No. in Survey held at Reg. Book. Hull Date, First Survey 19th Dec 1934 Last Survey 8th May 1935 (Number of Visits 26.)

on the *Steel to K " Kingston Brysoberyl "* Tons { Gross 447.94 Net 173.77

Built at *Beverley* By whom built *Book, Welton & Gemmell Ltd.* Yard No. 602 When built 1935.4

Engines made at *Hull* By whom made *Charles D. Holmes & Co. Ltd.* Engine No. 1475 When made 1935

Boilers made at *Hull* By whom made *Charles D. Holmes & Co. Ltd.* Boiler No. 1475 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 *Compound - Reciprocating* 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 *7.75"* Crank pin dia. *7.75"* Crank webs Mid. length breadth *13"* Thickness parallel to axis *5"*

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

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

Bronze Liners, thickness in way of bushes as per Rule *18/32"* as fitted *15/32"* 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 two liners are fitted, is the shaft lapped or protected between the liners *no* 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 *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 4x5x6"* How driven *Steam* Pumps connected to the Main Bilge Line { No. and size *Duplex 4x5x6" + 3" Ejector* How driven *Steam*

Ballast Pumps, No. and size *Two 6x5 1/2 x 15"* Lubricating Oil Pumps, including Spare Pump, No. and size *Two 6x5 1/2 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 *5 @ 2" dia.*

Main Water Circulating Pump Direct Bilge Suctions, No. and size *One 4 3/4"* 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 stakehold 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 *✓*

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

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 and donkey check valve seats, Impeller & shaft for centrifugal pumps, Top & bottom end bolts for centrifugal pumps, Valves for duplex pump, Feed pump ram, Safety valve spring.*

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

Dr. Cooper

Manufacturer.



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

During progress of work in shops - - 1934: - Dec. 19.
 Dates of Survey while building }
 During erection on board vessel - - - 1935: - Jan 4, 14, 21, 24, 31, Feb 7, 15, 22, 26, 28.
 Mar 5, 7, 15, 18, 21, 25, 26, Apr 3, 4, 5, 9, 11, 12, 29, May 8.
 Total No. of visits 26

Dates of Examination of principal parts - Cylinders 26-3-35 Slides 18-3-35 Covers 18-3-35
 Pistons 26-3-35 Piston Rods 26-3-35 Connecting rods 26-3-35
 Crank shaft 18-3-35 Thrust shaft See Nwc Rpt 92384 Intermediate shafts No 1 5-3-35 No 2 15-3-35
 Tube shaft ✓ Screw shaft 26-2-35 Propeller 26-2-35
 Stern tube 26-2-35 Engine and boiler seatings 25-3-35 Engines holding down bolts 4-4-35
 Completion of fitting sea connections 7-3-35
 Completion of pumping arrangements 11-4-35 Boilers fixed 3-4-35 Engines tried under steam 12-4-35
 Main boiler safety valves adjusted 12-4-35 Thickness of adjusting washers P+S 3/8"
 Crank shaft material Steel Identification Mark 955 Thrust shaft material See Nwc Rpt 92384 Identification Mark ✓
 Intermediate shafts, material Steel Identification Marks 955 Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark 955 Steam Pipes, material B. Copper Test pressure 4.30 H₂O Date of Test 5-4-35
 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 Cairngorm"

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel (please see Nwc Report 92384) has been built under special survey and in accordance with the approved plans and the Rules; the materials and workmanship are sound and good.

It has been tried under working conditions and found satisfactory and is eligible in my opinion, to be classed with record LMC 535 CL

The Newcastle Report No 92384 and plans relating to the turbine of this installation are forwarded herewith.

The amount of Entry Fee ... £ 3 : 0 :
~~Part~~ Special ... £ 25 : 17 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for 26 APR 1935
 When received, 1-6 1935
 L. Moffatt, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned + Lmb 5-35 CL



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