

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

-6 OCT 1927

Date of writing Report - 5 OCT 1927 When handed in at Local Office - 5 OCT 1927 Port of **HULL**

No. in Survey held at **Hull** Date, First Survey **20 May** Last Survey **1 Oct 1927**
 Reg. Book. **17705** on the **Shul S. T. "ST. MELANTE"** (Number of Visits **74**)

Built at **Burley** By whom built **Cook, Helton & Gemmill Ltd** Yard No. **489** Tons { Gross **368** Net **155** When built

Engines made at **Hull** By whom made **Charles D. Holmes & Co Ltd** Engine No. **1315** when made **1927**

Boilers made at **Hull** By whom made **do** Boiler No. **1315** when made **1927**

Registered Horse Power Owners **T. Hambling & Co Ltd** Port belonging to **Hull**

Nom. Horse Power as per Rule **96.4** 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 **Triple Expansion** Revs. per minute **112**

Dia. of Cylinders **13" 23" 34"** Length of Stroke **26"** No. of Cylinders **3** No. of Cranks **3**

Crank shaft, dia. of journals as per Rule **6.9** Crank pin dia. **4 1/2"** Crank webs Mid. length breadth **14 1/4"** Thickness parallel to axis **4 1/8"**
 as fitted **7/2"** Mid. length thickness **4 1/8"** shrunk 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 **7 1/2"**

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule **8 1/4"** Is the { screw } shaft fitted with a continuous liner { **yes** }

Bronze Liners, thickness in way of bushes as per Rule **7/16"** Thickness between bushes as per Rule **3/8"** 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 **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 two 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 **Yes** 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 **Cast** whether Moveable **No** Total Developed Surface **34.75** sq. feet

Feed Pumps worked from the Main Engines, No. **One** Diameter **2 5/8"** Stroke **14 1/4"** Can one be overhauled while the other is at work **Yes**

Bilge Pumps worked from the Main Engines, No. **One** Diameter **2 5/8"** Stroke **14 1/4"** Can one be overhauled while the other is at work **Yes**

Feed Pumps { No. and size **6 x 3 1/2 x 6** Pumps connected to the { No. and size **6 x 4 1/2 x 6 + 3" direct** }
 How driven **Steam** Main Bilge Line How driven **Steam**

Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size

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"**

In Holds, &c. **5 @ 2"**

Main Water Circulating Pump Direct Bilge Suctions, No. and size **1 @ 3 1/2"** Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size **1 @ 3"** 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 **Yes** 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 **Yes** Is it fitted with a watertight door **Yes** worked from **Yes**

MAIN BOILERS, &c.—(Letter for record **5**) Total Heating Surface of Boilers **1698 sq. ft.**

Is Forced Draft fitted **No** No. and Description of Boilers **One, Single ended** Working Pressure **200 lbs**

IS A REPORT ON MAIN BOILERS NOW FORWARDED? **Yes**

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

PLANS. Are approved plans forwarded herewith for Shafting **No** Main Boilers **Yes** Auxiliary Boilers **No** Donkey Boilers **No**
 (If not state date of approval)

Superheaters **Yes** General Pumping Arrangements **Yes** Oil fuel Burning Piping Arrangements **Yes**

SPARE GEAR. State the articles supplied:—

2 Top end bolts & nuts, 2 Bottom end bolts & nuts, 2 main bearing bolts & nuts, Set of coupling bolts & nuts, Set of feed & bilge pump valves, main & donkey check valves & seats, Safety valve spring, Impeller & shaft for centrifugal pump, Feed pump ram, complete, Spare valves for duplex & fly-wheel pumps, Bolts & nuts of various sizes

The foregoing is a correct description,

CHARLES D. HOLMES & Co., Ltd.

Harold Shearman DIRECTOR

Manufacturer.



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1927. May 20. June 13. 15. 23. July 6. 11. 19. 20. Aug 4. 10. 11. 13. 22. 24. 26. Sept 5. 5.

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits

14. 14. 19. 23. 26. 26. Oct 1.

Dates of Examination of principal parts—Cylinders	22. 8. 27	Slides	22. 8. 27	Covers	22. 8. 27
Pistons	22. 8. 27	Piston Rods	22. 8. 27	Connecting rods	22. 8. 27
Crank shaft	11. 8. 27	Thrust shaft	13. 8. 27	Intermediate shafts	✓
Tube shaft	✓	Screw shaft	19. 7. 27.	Propeller	20. 7. 27
Stern tube	20. 7. 27	Engine and boiler seatings	14. 9. 27.	Engines holding down bolts	14. 9. 27
Completion of fitting sea connections	10. 8. 27	Boilers fixed	23. 9. 27	Engines tried under steam	23. 9. 27
Completion of pumping arrangements	23. 9. 27	Thickness of adjusting washers	A. $\frac{1}{32}$. F $\frac{3}{8}$ "		
Main boiler safety valves adjusted	23. 9. 27				
Crank shaft material	Steel	Identification Mark	Lloyd's 268	Thrust shaft material	Steel
Intermediate shafts, material	✓	Identification Marks	✓	Tube shaft, material	✓
Screw shaft, material	Steel	Identification Mark	Lloyd's 268	Steam Pipes, material	S.D. Copper
				Test pressure	400 lbs
				Date of Test	14. 9. 27

Is an installation fitted for burning oil fuel 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 Yes No If so, state name of vessel "Kingston Bay"

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery of this vessel has been built under special survey, and the materials and workmanship are sound & good. The engines, boiler and pumping arrangements have all been tried under working conditions & found in order.

The machinery is eligible in my opinion to have record in the Register Book of + L.M.C. 10.27 C.L.

It is submitted that this vessel is eligible for THE RECORD. + LMC 10.27. CL.

J.W.D.
6/10/27

The amount of Entry Fee	£ 2 : 0 : 0	When applied for,	5 Oct 1927
Special	£ 24 : 0 : 0	When received,	1. 11. 1927
Donkey Boiler Fee	£ :		
Travelling Expenses (if any)	£ :		

John Shackirdy
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned *Thurs 10.27 CL*

FRI. 7 OCT 1927

