

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report: 14.3.1928 When handed in at Local Office: 19 MAR 1928 Port of HULL
 No. in Survey held at Hull Date, First Survey 16 Dec 1927 Last Survey 17 March 1928
 Reg. Book. 11108. on the Steam Trawler "CHALCEDONY" (Number of Visits 16)
 Built at Beverley By whom built Cook, Gullett & Hemmell Ltd Yard No. 493 Tons { Gross 352 Net 146
 Engines made at Hull By whom made Charles B. Holmes & Co Ltd Engine No. 1323 when made 1928
 Boilers made at Hull By whom made do Boiler No. 1323 when made 1928
 Registered Horse Power Owners Kingdon Steam Trawling Co Ltd Port belonging to Hull
 Nom. Horse Power as per Rule 96. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes
 Trade for which Vessel is intended Fishing.

ENGINES, &c.—Description of Engines Triple Expansion. Revs. per minute
 Dia. of Cylinders 13. 23. 37 Length of Stroke 26 No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 6.9 as fitted 4.5 Crank pin dia. 4.2 Crank webs Mid. length breadth 14.24 Mid. length thickness 4.78 Thickness parallel to axis 4.78 Thickness around eye-hole 3.38
 Intermediate Shafts, diameter as per Rule as fitted Thrust shaft, diameter at collars as per Rule 6.9 as fitted 4.5
 Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 4.7 as fitted 8.2 Is the tube screw shaft fitted with a continuous liner Yes
 Bronze 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 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 Length of Bearing in Stern Bush next to and supporting propeller 36
 Propeller, dia. 9'-9" Pitch 10'-10 1/2" No. of Blades 4 Material Cast Iron whether Moveable No Total Developed Surface 34.45 sq. feet
 Feed 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
 Bilge 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
 Feed Pumps { No. and size 6 x 3 1/2 x 6 How driven Steam Pumps connected to the Main Bilge Line { No. and size 6 x 4 1/2 x 6 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 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" 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
 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 casing
 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 ✓) 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?
 PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Yes Auxiliary Boilers Donkey Boilers
 Superheaters General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements

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. Circulating pump impeller + shaft. Feed pump ram. Valves for duplex + fly wheel pumps. Set of air pump valves. Bolts, nuts + iron of various sizes

The foregoing is a correct description,

By CHARLES B. HOLMES & Co. LTD

J. Cooper

Manufacturer.



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

1927. Dec 16 1928. Jan 9. 18. 24. 30. Feb 7. 4. 9. 14. 22. 24. Mar 2.
 During progress of work in shops -- 5. 8. 10. 12.
 Dates of Survey while building
 During erection on board vessel ---
 Total No. of visits 16.

Dates of Examination of principal parts—Cylinders 9.2.28 Slides 14.2.28 Covers 9.2.28
 Pistons 14.2.28 Piston Rods 14.2.28 Connecting rods 14.2.28
 Crank shaft 14.2.28 Thrust shaft 14.2.28 Intermediate shafts ✓
 Tube shaft ✓ Screw shaft 9.1.28 Propeller 30.1.28
 Stern tube 30.1.28 Engine and boiler seatings 2.3.28 Engines holding down bolts 2.3.28
 Completion of fitting sea connections 2.2.28
 Completion of pumping arrangements 10.3.28 Boilers fixed 2.3.28 Engines tried under steam 10.3.28
 Main boiler safety valves adjusted 10.3.28 Thickness of adjusting washers 3/8 F. 4 A.
 Crank shaft material Steel Identification Mark *Henry 294* Thrust shaft material Steel Identification Mark *Henry 294*
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark *Henry 294* Steam Pipes, material *S.A. Pipes* Test pressure 400 Lbs Date of Test 5.3.28

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 the use of oil as fuel been complied with ✓
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo ✓ If so, have the requirements of the Rules been complied with ✓
 Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Aquamarine*

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The machinery of this vessel has been built under special survey - the materials & workmanship are sound & good. The machinery has been satisfactorily fitted on board, tried under working conditions & the pumping found in order. The machinery is eligible in my opinion to have record in Register Book + L.M.C. 3.28 C.L.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 3.28 C.L.
J.M.
21/3/28
J. H. Mackurdy

The amount of Entry Fee ... £ 2 : : When applied for, 19 Mar 1928.
 Special ... £ 24 : :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : : When received, 3.4.28

Committee's Minute
 Assigned
 L.M.C. 3.28 C.L.
 FRI 23 MAR 1928
 CERTIFICATE WRITTEN

Date of writing Report

No. in Survey Reg. Book

11108 on the

Master

Engines made at

Rpt. 7

The words FORGINGS or CASTINGS should be struck out as may be required.
 Mark on

Material

How made

If Annealed

Dimension

Weight, C

Progress of Inspect

Tests on Test

Tensile Tons per

Extension

Cold Bend Angle bef

Dates when

Fee (if

• If of

10m.27.

