

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office - 2 FEB 1937

1 FEB 1937

Date of writing Report 1.2.37 When handed in at Local Office

Port of HULL

No. in Survey held at Hull

Date, First Survey 6th Nov. 1936

Last Survey 28th Jan 1937

Reg. Book. 68915 on the Steam Trawler "REIGHTON WYKE"

(Number of Visits 22) Tons Gross 465.24 Net 192.93

Built at Selby By whom built Cochrane & Sons Ltd Yard No. 1174 When built 1937-1

Engines made at Hull By whom made S. D. Holmes & Co Ltd Engine No. 1517 When made 1937

Boilers made at Hull By whom made S. D. Holmes & Co Ltd Boiler No. 1517 When made 1937

Registered Horse Power Owners West Dock Steam Towing Co Ltd Port belonging to Hull

Nom. Horse Power as per Rule 120.123 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 Triple Expansion Revs. per minute

Dia. of Cylinders 13 1/2 - 24 - 39 Length of Stroke 27 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 7.717 as fitted 8 Crank pin dia. 8 Crank webs Mid. length breadth 15 1/2 shrunk Mid. length thickness 5 Thickness parallel to axis 5 Thickness around eye-hole 3 1/2

Intermediate Shafts, diameter as per Rule 7.35 as fitted 7 3/8 Thrust shaft, diameter at collars as per Rule 7.717 as fitted 8

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 8.214 as fitted 8 1/2 Is the tube screw shaft fitted with a continuous liner Yes

Bronze Liners, thickness in way of bushes as per Rule 5.46 as fitted 9/16 Thickness between bushes as per Rule 4.093 as fitted 7/16 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

Length of Bearing in Stern Bush next to and supporting propeller 36

Propeller, dia. 10' 4 1/2 Pitch 10' 10 1/2 No. of Blades 4 Material Cast iron whether Moveable No Total Developed Surface 41 sq. feet

Feed Pumps worked from the Main Engines, No. One Diameter 3 Stroke 15 Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. One Diameter 3 Stroke 15 Can one be overhauled while the other is at work

Feed Pumps No. and size One 6' x 3 1/2' x 6' Duplex & One 7' x 5' x 6' Duplex Pumps connected to the Main Bilge Line No. and size One 7' x 5' x 6' Duplex & One 3' Ejector

How driven Steam 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 at 2" diameter In Pump Room In Holds, &c. 5 at 2" diameter

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 4" dia. Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 3" dia. 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 suction 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 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

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 2160 square feet

Is Forced Draft fitted No No. and Description of Boilers One single ended Return Tube Working Pressure 215 lbs/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 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: Centrifugal pump impeller & shaft, One set Duplex pump valves, One bottom water gauge pipe, One set air pump valves, One auxiliary check valve lid & seat, One main, One safety valve spring.

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

*J. Cooper*

Manufacturer.



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003525-003532-0190

During progress of work in shops -- } 1936:- Nov 6.11.12.16.17.18. 27.30. Dec. 15.29.31.  
 Dates of Survey while building } 1937:- Jan 4.6.8.11.19.20.21.25.26.27.28.  
 During erection on board vessel --- }  
 Total No. of visits 22

Dates of Examination of principal parts—Cylinders 8.1.37. Slides 8.1.37. Covers 8.1.37.  
 Pistons 8.1.37. Piston Rods 31.12.36. Connecting rods 31.12.36.  
 Crank shaft 4.1.37. Thrust shaft 6.1.37. Intermediate shafts 15.12.36.  
 Tube shaft 11.11.36. Screw shaft 11.11.36. 16.11.36. Propeller 18.11.36.  
 Stern tube 11.11.36. Engine and boiler seatings 27.11.36. Engines holding down bolts 19.1.37.  
 Completion of fitting sea connections 27.11.36.  
 Completion of pumping arrangements 26.1.37. Boilers fixed 19.1.37. Engines tried under steam 28.1.37.  
 Main boiler safety valves adjusted 26.1.37. Thickness of adjusting washers F = 5/16" A = 3/8"  
 Crank shaft material Steel Identification Mark 1051. Thrust shaft material Steel Identification Mark 1051.  
 Intermediate shafts, material Steel Identification Marks 1051 Tube shaft, material Steel Identification Mark 1051.  
 Screw shaft, material Steel Identification Mark 1051. Steam Pipes, material S.D. Copper Test pressure 430 lbs/sq" Date of Test 19.1.37.  
 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 ✓ 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 No If so, state name of vessel ✓

**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.  
It has been satisfactorily fitted on board, tried under steam, and found good.  
It is eligible in my opinion, to have record of L.M.C 1, 37. CL.

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

The amount of Entry Fee ... £ 3 : 0 :  
 Special ... £ 30 : 0 :  
 Donkey Boiler Fee ... £ : :  
 Travelling Expenses (if any) £ : : 3.3 19 37 4/3

When applied for,  
**1 FEB 1937**

When received,  
**3.3** 19 **37** **4/3**

J. A. Orde  
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI 5 FEB 1937

Committee's Minute \_\_\_\_\_  
 Assigned + Lmc 1, 37 CL

