

REPORT ON MACHINERY.

No. 11025

Hull Rpt No 31681

Survey held at Grimsby Date, First Survey Mar 15 1918 Last Survey June 4 1919

on the Engine of H.M. Drifter "Fogbank" (Number of Visits 26)

Built at Grimsby By whom built Clapson

By whom made G. Central Cooperative Eng. S. Rybolt when made 1919

Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Cylinders 9 1/2 15 26 Length of Stroke 18 Revs. per minute 140 Dia. of Screw shaft 5 1/4

Is the after end of the liner made water tight

Length of stern bush 24

Feed pumps 1 Diameter of ditto 2 1/2 Stroke 9 Can one be overhauled while the other is at work

Bilge pumps 1 Diameter of ditto 2 1/2 Stroke 9 Can one be overhauled while the other is at work

Donkey Engines 1 Sizes of Pumps 5 1/2 8 1/2 2 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps

In Holds, &c. 2 1/2 dia.

Bilge Injections 1 sizes 2 1/2 Connected to condenser, or to circulating pump

Are the roses in Engine room always accessible

Are the Discharge Pipes above or below the deep water line

Are the Blow Off Cocks fitted with a spigot and brass covering plate

How are they protected Wooden casings

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

Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

of examination of completion of fitting of Sea Connections 30/5/19 of Stern Tube 30/5/19 Screw shaft and Propeller 30/5/19

Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

ERS, &c.—(Letter for record) Manufacturers of Steel

Heating Surface of Boilers Is Forced Draft fitted No No. and Description of Boilers See separate report

ing Pressure Tested by hydraulic pressure to Date of test No. of Certificate

ach boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

Area of each valve Pressure to which they are adjusted 185 lbs Are they fitted with easing gear

est distance between boilers or uptakes and bunkers on woodwork 1/2 inch gap Mean dia. of boilers Length Material of shell plates

Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

ntages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____

Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____

If fitted with casing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____

Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____

Working pressure of shell by rules _____ Thickness of shell crown plates _____ Radius of do. _____ No. of stays to do. _____ Dia. of stay _____

Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____

Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Radius of do. _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— *Two connecting rods top and bottom 2 connecting bottom end bolts 2 nuts, 2 main bearing bolts 2 nuts, 1 set of feed, bilge, circulating pump valves, 6 condenser tubes, a quantity of assorted iron of various sizes, 1 main & 1 donkey feed check valve, 1 safety valve.*

The foregoing is a correct description,

Manufacturer.

For 9th Central Co. of Eng. Machinery Co. Ltd.
W. W. Pingle

Dates of Survey while building

During progress of work in shops --	1918: Apr 15, May 10, 24, 31, June 6, 14, July 1, Aug 10, 21, Sept 4, 18, 28, Oct 25, Nov 5, 9, 18
During erection on board vessel --	1919: Jan 27, Feb 10, Mar 8, Apr 17, 26, May 24, June 3, 4
Total No. of visits	33.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders *10/8/18* Slides *18/11/19* Covers *18/4/18* Pistons *10/5/18*

Connecting rods *25/9/18* Crank shaft *25/9/18* Thrust shaft *4/6/19* Tunnel shafts *✓* Screw shaft *25/9/18*

Stern tube *25/9/18* Steam pipes tested *29/8/19* Engine and boiler seatings *13/8/19* Engines holding down bolts *4/3/20*

Completion of pumping arrangements *4/3/20* Boilers fixed *4/3/20* Engines tried under steam *4/3/20*

Main boiler safety valves adjusted *2/3/20* Thickness of adjusting washers *1 1/8" 5 7/8"*

Material of Crank shaft *Steel* Identification Mark on Do. *95A* Material of Thrust shaft *Steel* Identification Mark on Do. *478*

Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *50* Identification Marks on Do. *240*

Material of Steam Pipes *Copper* Test pressure *400 lbs/sq"*

General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery has been built under special survey in accordance with the plan specification and on completion of installation it is eligible in my opinion for the notation LMC with donkey.

The machinery has been properly fitted & runned the vessel. On completion the machinery was tried under full working conditions with satisfactory results.

In my opinion the machinery is eligible for the notation LMC-3-20 in Red in the British Register Book.

L.M.C. 3-20.

12/3/20

The amount of Entry Fee .. £ *4-10-0*

Special .. £ *9-0-0*

Donkey Boiler Fee .. £ *11-3-20*

Travelling Expenses (if any) £ *27/8/19*

When applied for, *June 28, 1919*

When received, *27/8/19*

Committee's Minute

Assigned

FRI. MAR. 191920

+ L.M.C. 3-20

MACHINERY CERT. WRITTEN

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

TUE. 5 MAR. 1923

Lloyd's Register Foundation