

Rpt. 4.

REPORT ON MACHINERY

Hull No 19619

Hwc. No. 53770

Gb. No. 25969

Port of Glasgow.

Received at London Office

THUR. 28 NOV 1907

No. in Survey held at Coatbridge N.B.

Reg. Book.

Date, first Survey 7 July

Last Survey 12 November 1907

27 Supp. on the Steel Screw Trawler "Lily" No. 1024

(Number of Visits)

Master

Built at Goole

By whom built Goole Shipbuilding Co. (H.C. 1024) When built 1907.

Engines made at Coatbridge

By whom made W.T.V. Ridgerwood Eng. (H.C. 271)

when made 1907.

Boilers made at Wallsend

By whom made Wallsend Slipway Co. (195 B)

when made 1907.

Registered Horse Power

Owners G. Cohen

Port belonging to Fleetwood

Nom. Horse Power as per Section 28 75.33.

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple Expansion

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 13-21-35 Length of Stroke 25 Revs. per minute 145

Dia. of Screw shaft as per rule 7.45" Material of screw shaft Iron

Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes

Is the after end of the liner made water tight

in the propeller boss yes. If the liner is in more than one length are the joints burned

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

liners are fitted, is the shaft lapped or protected between the liners

If two

Dia. of Tunnel shaft as per rule none Dia. of Crank shaft journals as per rule 6.9"

collars 7 1/4 Dia. of screw 9-0 Pitch of Screw

No. of Blades

State whether moveable

Total surface

No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 12

Can one be overhauled while the other is at work yes.

No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 12

Can one be overhauled while the other is at work yes.

No. of Donkey Engines 2 Sizes of Pumps one 5 1/4" x 3 1/2" = 5"

In Engine Room Two 2" - Gectors to all parts.

In Holds, &c. Two 2 1/2"

No. of Bilge Injections 1 sizes 3"

Connected to condenser, or to circulating pump pump

Is a separate Donkey Suction fitted in Engine room & size yes. 2"

Are all the bilge suction pipes fitted with roses yes

Are the roses in Engine room always accessible yes

Are all connections with the sea direct on the skin of the ship yes

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes

What pipes are carried through the bunkers Hold Suction

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

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

Dates of examination of completion of fitting of Sea Connections 29. Oct 07

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

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 _____ Description of Safety Valves _____

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

If fitted with easing 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 _____ Descrp. of riveting long. seams _____

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

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

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 _____ Stayed by _____

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

SPARE GEAR. State the articles supplied:— 2 Connecting rod top end + 2 bottom end bolts + nuts, 2 Main bearing bolts + nuts, 1 set of coupling bolts + nuts, 1 set each of feed + bilge pump valves, a quantity of assorted bolts + nuts, Iron of various sizes, + 1 set of piston springs.

The foregoing is a correct description,

For W. V. V. Lidgerwood Manufacturer.

Dates of Survey while building	During progress of work in shops - -	1907 July 9 26 Aug 6 8 14 24 26 Sep 3 5 12 25 Oct 17 25 Nov 12
	During erection on board vessel - -	Nov 1907 Oct 29 Nov 15 7
	Total No. of visits	14

Is the approved plan of main boiler forwarded herewith no
 " " " donkey " " "

Dates of Examination of principal parts—Cylinders 5.9.07 Slides 5.9.07 Covers 8.8.07 Pistons 5.9.07 Rods 3.9.07
Connecting rods 25.9.07 Crank shaft 26.8.07 Thrust shaft 12.11.07 Tunnel shafts none Screw shaft 12.11.07 Propeller 25.9.07
Stern tube 8.8.07 Steam pipes tested 5 Nov. 07 Engine and boiler seatings 29. Oct 07 Engines holding down bolts 1 Nov. 07
Completion of pumping arrangements 7. Nov 07 Boilers fixed 1 Nov. 07 Engines tried under steam 7. Nov. 07
Main boiler safety valves adjusted 7. Nov. 07 Thickness of adjusting washers PVR 3/8 SVR 1/16 full.
Material of Crank shaft Steel Identification Mark on Do. 271 Material of Thrust shaft Steel Identification Mark on Do. 271
Material of Tunnel shafts none Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 271
Material of Steam Pipes Copper Test pressure 360 lbs

General Remarks (State quality of workmanship, opinions as to class, &c. The Engines & Boiler of this vessel have) been built under Special Survey, the workmanship & materials being of good quality, & when they have been satisfactorily fitted on board & tried under steam, they will in our opinion be eligible for notation + L.M.C. (with date)

✓ 11.07.

The boiler and engine fitted on board. tried under Steam and found satisfactory.
Leonard & Shalcross.

It is submitted that
this vessel is eligible for
THE RECORD. ✠ L.M.C. 11.07

HC 29-11-07

29.11.07

The amount of Entry Fee	£	:	:	When applied for,
Special	£	:	:	18 NOV 1907
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	4/12/07

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

Committee's Minute

FRI. 29 NOV 1907

Assigned Deferred for completion
For NWC

+ L. N. 6. 11. 07.

MACHINE WRITTEN