

REPORT ON MACHINERY

No. 38938

Received at London Office

THU. JUL. 17. 1919

Writing Report 19 When handed in at Local Office 12/7/1919 Port of Glasgow
 in Survey held at Renfrew Date First Survey 29/1/1918 Last Survey July 8th 1919
 on the Merser Clan Trawler, Peter Hoffmann (Number of Visits 30)
 Built at Renfrew By whom built Lobnitz & Co. Ltd. (832) Tons Gross 329 Net 152
 When built 1919
 By whom made Lobnitz & Co. Ltd. (832) when made 1919
 By whom made Lobnitz & Co. Ltd. (832) when made 1919
 Owners E. Wallis Syme & Co. Ltd. Port belonging to London
 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

GINES, &c. Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Length of Stroke 26 Revs. per minute 115 Dia. of Screw shaft as per rule 7.88 as fitted 8.5 Material of screw shaft steel
 Is the after end of the liner made water tight
 If the liner is in more than one length are the joints burned length 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
 Length of stern bush 35 1/2
 Dia. of Crank shaft journals as per rule 7.39 as fitted 7.5 Dia. of Crank pin 7 1/2 Size of Crank webs 4 1/2 x 4 1/2 Dia. of thrust shaft under
 State whether moveable 22 Total surface 33 1/2
 No. of Blades 4
 Diameter of ditto 2 5/8 Stroke 4 3/4 Can one be overhauled while the other is at work
 Diameter of ditto 2 5/8 Stroke 14 3/4 Can one be overhauled while the other is at work
 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Holds, &c. Forecastle (1) 2" Forehold (1) 2" Stubb
 Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size eyes 2"
 Are the roses in Engine room always accessible eyes Are the sluices on Engine room bulkheads always accessible none
 Are they Valves or Cocks eyes both
 Are the Discharge Pipes above or below the deep water line above
 Are the Blow Off Cocks fitted with a spigot and brass covering plate eyes
 How are they protected stud casing
 Are the shell plates welded or flanged 220 Descrip. of riveting: cir. seams Double top
 Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 5/8 Lap of plates or width of butt straps 18"
 Working pressure of shell by rules 202 Size of manhole in shell 19" x 15"
 No. and Description of Furnaces in each boiler 3 plain Material steel Outside diameter 40"
 Thickness of plates crown 13/16 bottom 1/16 Description of longitudinal joint welded No. of strengthening rings
 Working pressure of furnace by the rules 209 Combustion chamber plates: Material steel Thickness: Sides 3/4" Back 23/32" Top 3/4" Bottom 3/4"
 Working pressure by rules 223 End plates in steam space:
 Working pressure by rules 200 Material of Front plates at bottom steel
 Working pressure of plate by rules 214
 Working pressures by rules 310 Girders to Chamber tops: Material steel Depth and
 Distance apart 11" Number and pitch of stays in each (3) 8"
 Working pressure by rules 202 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 End plates: Thickness How stayed
 Area of safety valves to superheater Are they fitted with easing gear

MANUFACTURERS, &c. (Letter for record (5) Manufacturers of Steel D. Colville & Sons Ltd. Glasgow
 Is Forced Draft fitted 220 No. and Description of Boilers one Single ended
 Tested by hydraulic pressure 400 Date of test 28/2/19 No. of Certificate 14635
 Area of fire grate in each boiler 48 1/2 No. and Description of Safety Valves to
 Pressure to which they are adjusted 205 lb Are they fitted with easing gear eyes
 Mean dia. of boilers 13.9" Length 10.8" Material of shell plates steel
 Range of tensile strength 285-32 Are the shell plates welded or flanged 220 Descrip. of riveting: cir. seams Double top
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 Area of safety valves to superheater Are they fitted with easing gear



W1544-0119

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description *None*

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 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 _____ 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 _____ 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:— *2 top end bolts & nuts, 2 bottom end bolts & nuts, 2 main bearing bolts & nuts, 1 set of coupling bolts & nuts, fuel & bilge pump valves, iron, bolts & nuts, assorted, and all other items specified.*

The foregoing is a correct description,

Manufacturer.

FOR LOEBLITZ & Co. LIMITED

F. V. M. Tees
Director

Dates of Survey while building: During progress of work in shops --- 1918 Jan 29 Feb 20 Mar 14 July 8 Aug 2. 16. Sept 5. 10. 19. Oct 3. 9. 25. Nov 1. 4. Dec 4. 9. During erection on board vessel --- 1919 Jan 13 Feb 10. 26. 28. Mar 6. 10. 24. Apr 28. May 29. June 5. 25. July 1. 4. 8. Total No. of visits *30.*

Is the approved plan of main boiler forwarded herewith *no.*

Dates of Examination of principal parts—Cylinders *10/9/18* Slides *3/10/18* Covers *10/9/18* Pistons *3/10/18* Rods *3/10/18*

Connecting rods *3/10/18* Crank shaft *9/10/18* Thrust shaft *25/9/18* Tunnel shafts ✓ Screw shaft *28/2/19* Propeller *28/2/19*

Stern tube *29/5/19* Steam pipes tested *1/7/19* Engine and boiler seatings *22/5/19* Engines holding down bolts *4/7/19*

Completion of pumping arrangements *4/7/19* Boilers fixed *4/7/19* Engines tried under steam

Main boiler safety valves adjusted *4/7/19* Thickness of adjusting washers *Found 3/8" aft 5/16"*

Material of Crank shaft *Steel* Identification Mark on Do. *832 2729* Material of Thrust shaft *Steel* Identification Mark on Do. *27/3/19*

Material of Tunnel shafts *Iron* Identification Marks on Do. ✓ Material of Screw shafts *Steel* Identification Marks on Do. *27/3/19*

Material of Steam Pipes *S.D. Copper* Test pressure *400*

General Remarks (State quality of workmanship, opinions as to class, &c. *These engines & boilers have been built under special survey the materials & workmanship are of good description, they have been well fitted on board & tried under steam.*

This machinery is in my opinion eligible to have notification of + L.M.C. 7-19 in the Register

Mersey class

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 7.19.

J.W.D.
18/7/19

The amount of Entry Fee .. £ : : When applied for, *15. 7. 19.*

Special £ *27* . 16 : : When received, *18/7/19*

Donkey Boiler Fee £ : : *LRB 21/7*

Travelling Expenses (if any) £ : : *LRB 21/7*

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

Committee's Minute **GLASGOW** 15 JUL 1919

Assigned *+ L.M.C 7.19.*



Glasgow.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minutes.)

17.7.19
+ copy 9/4/22