

REPORT ON MACHINERY.

No. 38938.

Received at London Office

THU. JUL. 17. 1919

of writing Report

10

When handed in at Local Office

12/7/19

1919

Port of Glasgow

in Survey held at Renfrew

Date First Survey

29/1/1918

Last Survey

July 8th

1919

g. Book.

on the Merser Clan Hawler, Peter Hoffmann

(Number of Visits

308

Gross 329

ster

Built at Renfrew

By whom built

Lobnitz & Co Ltd (832)

Tons

Net 152

ines made at

Renfrew

By whom made

Lobnitz & Co Ltd (832)

When built

1919

ilers made at

Renfrew

By whom made

Lobnitz & Co Ltd (832)

When made

1919

istered Horse Power

Owners

E. Wallis Syme & Co

Port belonging to

London

n. Horse Power as per Section 28

86 87

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

of Cylinders

13" 23" 37"

Length of Stroke

26"

Revs. per minute

115

Dia. of Screw shaft

as per rule 7.88

Material of

steel

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

the propeller boss

yes

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

yes

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

Length of stern bush

35 1/2"

of Tunnel shaft

as per rule 7.04

Dia. of Crank shaft journals

as per rule 7.39

Dia. of Crank pin

7 1/2"

Size of Crank webs

44" x 4 1/2"

Dia. of thrust shaft under

ars

7 1/2"

Dia. of screw

9-7 1/2"

Pitch of Screw

11" 0"

No. of Blades

4

State whether moveable

yes

Total surface

33 1/2"

of Feed pumps

1

Diameter of ditto

25 1/8"

Stroke

4 1/4"

Can one be overhauled while the other is at work

of Bilge pumps

1

Diameter of ditto

25 1/8"

Stroke

14 3/4"

Can one be overhauled while the other is at work

of Donkey Engines

1

Sizes of Pumps

6" x 4 1/2" x 6"

No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room

one 2" 7 on ejector 3"

In Holds, &c. Forecastle (1) 2" Forehold (1) 2" Stubb

well (1) 2"

of Bilge Injections

1

sizes

5 1/2"

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & size

yes 2"

all the bilge suction pipes fitted with roses

yes

Are the roses in Engine room always accessible

yes

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

yes

Are they Valves or Cocks

yes both

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

yes

Are the Discharge Pipes above or below the deep water line

above

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

at pipes are carried through the bunkers

bilge & stow

How are they protected

stud casing

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

yes

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

yes

es of examination of completion of fitting of Sea Connections

29/5/19

of Stern Tube

29/5/19

Screw Shaft and Propeller

29/5/19

he Screw Shaft Tunnel watertight

none

Is it fitted with a watertight door

worked from

ELERS, &c. (Letter for record

(5)

Manufacturers of Steel

D. Colville & Sons Ltd. Renfrew

al Heating Surface of Boilers

1440 1/2

Is Forced Draft fitted

no

No. and Description of Boilers

one Single ended

rking Pressure

200 lbs

Tested by hydraulic pressure

400

Date of test

28/2/19

No. of Certificate

14635

each boiler be worked separately

yes

Area of fire grate in each boiler

148 1/2

No. and Description of Safety Valves to

boiler 1 pair direct sprung

allest distance between boilers or uptakes and bunkers or woodwork

9"

Mean dia. of boilers

13' 9"

Length

10' 8"

Material of shell plates

steel

ickness

15/64

Range of tensile strength

28 5/32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

Double lap

seams

Table

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 1/2"

Lap of plates or width of butt straps

18"

centages of strength of longitudinal joint

of compensating ring

34 x 30 x 1 3/16

No. and Description of Furnaces in each boiler

3 plain

Material

steel

Outside diameter

40"

gth of plain part

top 6' 5"

Thickness of plates

bottom 5' 7"

Description of longitudinal joint

welded

No. of strengthening rings

1

rking 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"

th of stays to ditto: Sides

8 x 10

Back

8 1/2 x 9 3/8

Top

8 x 11

If stays are fitted with nuts or riveted heads

no

Working pressure by rules

230

terial of stays

steel

Diameter at smallest part

1' 99"

Area supported by each stay

80"

Working pressure by rules

223

End plates in steam space

no

terial

steel

Thickness

1 3/32"

Pitch of stays

8 1/2 x 8 1/2"

How are stays secured

2 nuts

Working pressure by rules

200

Material of stays

steel

at smallest part

7' 5"

Area supported by each stay

342"

Working pressure by rules

200

Material of Front plates at bottom

steel

ickness

15/16

Material of Lower back plate

steel

Thickness

15/16

Greatest pitch of stays

13 3/4"

Working pressure of plate by rules

214

meter of tubes

3 1/2"

Pitch of tubes

4 1/8 x 4 1/8"

Material

VERTICAL DONKEY BOILER—Manufacturers of Steel

No. *None* 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 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 _____ 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 & bidge pump valves, iron, bolts & nuts, assorted, and all other items specified.*

The foregoing is a correct description,

Manufacturer.

FOR LOEBITZ & Co. LIMITED

J. V. M. Lee
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*.

" " " donkey " " "

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. *25/12/18*
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 Glass

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 7. 19.

J.W.D.
18/7/19
J.M.

The amount of Entry Fee .. £ : : When applied for, *15. 7. 19.*
Special .. £ 27. 16 : :
Donkey Boiler Fee .. £ : : When received, *18/7/19*
Travelling Expenses (if any) £ : : *4/1/22*

Committee's Minute GLASGOW 15 JUL 1919

Assigned + L.M.C. 7. 19.

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



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Glasgow.

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

17.7.19
28/7/19
4/4/22