

REPORT ON MACHINERY.

No. 70667

Received at London Office

Date of writing Report May 9th 1908 When handed in at Local Office

Port of London

No. in Survey held at Garmouth.

Date, First Survey Dec 18

Last Survey May 6th 1908.

Reg. Book.

on the S. Trawler 'La Mouette'

(Number of Visits)

Gross
Tons
Net

Master

Built at New Holland By whom built W. H. Warren

When built 1908.

Engines made at Garmouth.

By whom made Crabtree & Co.

when made 1908.

Boilers made at London.

By whom made S. Hodge & Sons Ltd.

when made 1908.

Registered Horse Power

Owners J. Mulard.

Port belonging to Calais.

Nom. Horse Power as per Section 28

38.

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Compound Surface Cond.

No. of Cylinders

2

No. of Cranks

2

Dia. of Cylinders 13" + 26"

Length of Stroke 18"

Revs. per minute 140

Dia. of Screw shaft

as per rule 6.03

Material of screw shaft

steel

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

no.

Is the after end of the liner made water tight

in the propeller boss

✓

If the liner is in more than one length are the joints burned

No.

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

No.

Length of stern bush

2' 3"

Dia. of Tunnel shaft

as per rule 5.24

Dia. of Crank shaft journals

as per rule 5.57

Dia. of Crank pin

6 1/4"

Size of Crank webs

3 1/2" x 4" x 9"

Dia. of thrust shaft under

collars 6 1/2"

Dia. of screw

8 1/2"

Pitch of Screw

9' 6"

No. of Blades

3

State whether moveable

no

Total surface

19 1/2

No. of Feed pumps

1

Diameter of ditto

2 1/2"

Stroke

9"

Can one be overhauled while the other is at work

✓

No. of Bilge pumps

1

Diameter of ditto

2 1/2"

Stroke

9"

Can one be overhauled while the other is at work

✓

No. of Donkey Engines

One

Sizes of Pumps

4 1/2" x 2 1/2" x 4"

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

In Engine Room

2 — 2", 1 — 1 1/2" — 2"

In Holds, &c.

1 — 2"

No. of Bilge Injections

1

sizes

3"

Connected to condenser, or to circulating pump

Circ.

Is a separate Donkey Suction fitted in Engine room & size

1 — 2"

Are all the bilge suction pipes fitted with roses

yes

Are the roses in Engine room always accessible

yes

Are the sluices on Engine room bulkheads always accessible

✓

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

yes

Are they 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 Discharge Pipes 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 are carried through the bunkers

bilge suction

How are they protected

casing

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

3rd. 4. 08

of Stern Tube

3rd. 4. 08

Screw shaft and Propeller

3rd. 4. 08

Is the Screw Shaft Tunnel watertight

None

Is it fitted with a watertight door

✓

worked from

✓

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

✓

No. and Description of Boilers

1 S. E. Mult.

Working Pressure

130 lbs.

Tested by hydraulic pressure to

260 lbs.

Date of test

19. 3. 08

No. of Certificate

784.

Can each boiler be worked separately

✓

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler

2 Direct spring

Area of each valve

4 9"

Pressure to which they are adjusted

135 lbs.

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

10"

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

plate

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

End plates in steam space:

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

✓

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	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	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, 2 Bottom end bolts, 2 Main bearing bolts, 1 set of coupling bolts, 2 Feed & bilge pump valves, propeller, assortment of bolts, nuts, iron, tubes, &c. ✓

The foregoing is a correct description,

Manufacturer.

ORABTREE & CO., LTD.

W. F. Crabtree

MANAGING DIRECTOR

Dates of Survey while building	During progress of work in shops—	Dec 18	Jan 1	3	Feb 10	15	26	Mar 1	Apr 1	3	4	30	May 5	6
	During erection on board vessel—													
	Total No. of visits	3												

Is the approved plan of main boiler forwarded herewith ☒ yes
 " " " donkey " " " ☒

Dates of Examination of principal parts—Cylinders	31. 1. 08	Slides	Covers	31. 1. 08	Pistons	10. 2. 08	Rods	10. 2. 08			
Connecting rods	10. 2. 08	Crank shaft	31. 1. 08	Thrust shaft	18. 2. 08	Tunnel shafts	18. 2. 08	Screw shaft	10. 2. 08	Propeller	18. 2. 08
Stern tube	18. 2. 08	Steam pipes tested	30. 4. 08	Engine and boiler seatings	3 & 4. 4. 08	Engines holding down bolts	22. 4. 08				
Completion of pumping arrangements	6. 5. 08	Boilers fixed	6. 5. 08	Engines tried under steam	6. 5. 08						
Main boiler safety valves adjusted	6. 5. 08	Thickness of adjusting washers	P ¹¹ / ₁₆	S. ⁹ / ₁₆							
Material of Crank shaft	Steel	Identification Mark on Do.	2026 Arc	Material of Thrust shaft	Steel	Identification Mark on Do.	35 & 44				
Material of Tunnel shafts	"	Identification Marks on Do.	8 & 7 & 4	Material of Screw shafts	"	Identification Marks on Do.	36 & 44				
Material of Steam Pipes	Spd Copper	Test pressure	300 lbs.								

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

This machinery has been constructed under special survey, the workmanship being of good description it has been satisfactory fitted on board & tried under steam.

In our opinion this machinery is eligible to be classed with record of \boxplus L.M.C. 5.08.

It is submitted that this vessel is eligible for THE RECORD. \boxplus L.M.C. 5.08.

HC 12.5.08

HC 12.5.08

For Mr. Sturgeon & Self

A. J. Barnett

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

The amount of Entry Fee	£ 5 : 4/8	When applied for,	11/5/08
Special ..	£ 2/3	When received,	12.5.08
Donkey Boiler Fee ..	£ :		
Travelling Expenses (if any) £	4 : 10/3		

Committee's Minute

Assigned

TUES. 12 MAY 1908

+ time 5.08

MACHINERY CERTIFICATE WRITTEN.



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