

# REPORT ON MACHINERY.

No. 70667

Received at London Office

Date of writing Report May 9<sup>th</sup> 1908 When handed in at Local Office 10 Port of London  
 No. in Survey held at Yarmouth Date, First Survey Dec 18 Last Survey May 6<sup>th</sup> 1908  
 Reg. Book. on the S. Trawler "La Mouette" (Number of Visits 8)  
 Master Built at New Holland By whom built W. H. Warren When built 1908  
 Engines made at Yarmouth 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 38 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 6 3/4" 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 lined 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 5 1/4" Dia. of Crank shaft journals 5 5/8" 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 3/8" Dia. of screw 8 1/2" Pitch of Screw 9' 6" No. of Blades 3 State whether moveable no Total surface 19 sq ft  
 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 31st. 4. 08 of Stern Tube 31st. 4. 08 Screw shaft and Propeller 31st. 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 1 S. E. Mult. 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 sq ft 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 \_\_\_\_\_ 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 \_\_\_\_\_ Thickness of plates \_\_\_\_\_ Descrip. of longitudinal joint \_\_\_\_\_ No. of strengthening rings \_\_\_\_\_  
 Working pressure of furnace by the rules \_\_\_\_\_ Combustion chamber plates: Material \_\_\_\_\_ Thickness: Sides \_\_\_\_\_ Back \_\_\_\_\_ Top \_\_\_\_\_ Bottom \_\_\_\_\_  
 Pitch of stays to ditto: Sides \_\_\_\_\_ Back \_\_\_\_\_ Top \_\_\_\_\_ If stays are fitted with nuts or riveted heads \_\_\_\_\_ Working pressure by rules \_\_\_\_\_  
 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 March April 1 - 3 4 30 May 5 - 6

{ During erection on board vessel - - }

Total No. of visits 13

Is the approved plan of main boiler forwarded herewith  yes

" " " donkey " " "  yes

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. 357 Ld.

Material of Tunnel shafts " Identification Marks on Do. 87 Ld. Material of Screw shafts " Identification Marks on Do. 36 Ld.

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

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For W. Sturgeon & Self

A. J. Barnett

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

The amount of Entry Fee £ 5 : 4/8

Special .. 2/3 Fees £ : : When applied for, 11/5/1908

Donkey Boiler Fee .. £ : : When received, 12.5.08

Travelling Expenses (if any) £ 4 : 10/3 : 7/11/1908

Committee's Minute

TUES. 12 MAY 1908

Assigned

HC 12.5.08

MACHINERY CERTIFICATE WRITTEN



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Certificate (if required) to be sent to

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