

REPORT ON MACHINERY.

No. 72465

Received at London Office 19.3.10

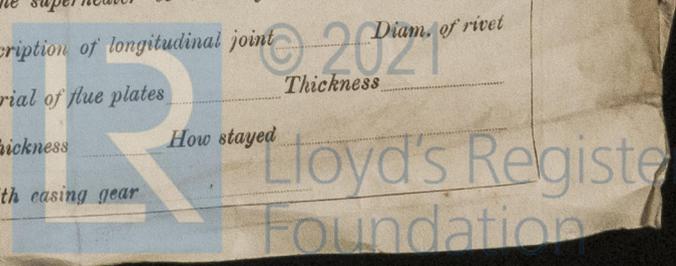
Date of writing Report 19 When handed in at Local Office 19/3/10 Port of London
 Date, First Survey 21st April '09 Last Survey 17/3/10
 (Number of Visits 13) Tons { Gross 115
 Net
 on the Machinery of S. tug Consort
 Master Built at Howdon By whom built J. Seary & Son When built 1910
 Engines made at Yarmouth By whom made Crabtree & Co Ltd when made 1910-3
 Boilers made at Stockton By whom made Riley Bros when made 1909
 Registered Horse Power Owners J. Constant Port belonging to
 Nom. Horse Power as per Section 28 51 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Compound Surface Condensing No. of Cylinders two No. of Cranks two
 Dia. of Cylinders 15" x 30" Length of Stroke 20" Revs. per minute 115 Dia. of Screw shaft as per rule 6.68" Material of steel
 as fitted 6.976" screw shaft
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube no liners 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 ✓ 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 liners Length of stern bush 30"
 Dia. of Tunnel shaft as per rule 5.82" Dia. of Crank shaft journals as per rule 6.11" Dia. of Crank pin 6 1/2" Size of Crank webs 4 x 8 1/4" Dia. of thrust shaft under
 as fitted 6 1/4" as fitted 6 1/2"
 Collars 6 1/2" Dia. of screw 7-6" Pitch of Screw 10'-6" No. of Blades 3 State whether moveable no Total surface 21 sq ft
 No. of Feed pumps one Diameter of ditto 2 1/4" Stroke 10" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps one Diameter of ditto 2 1/4" Stroke 10" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines one double ended Sizes of Pumps Ripe 3" Feed 2 1/4" Stroke 6" No. and size of Suctions connected to both Bilge and Donkey pumps
 in Engine Room one 2" diam In Holds, &c. one in each compartment
 2" diam
 No. of Bilge Injections one sizes 3" Connected to condenser to circulating pump yes 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 the sluices on Engine room bulkheads always accessible none
 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 Main steam pipe How are they protected Steel 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 10/2/10 of Stern Tube 10/2/10 Screw shaft and Propeller 10/2/10
 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 1050 Is Forced Draft fitted no No. and Description of Boilers one single ended
 Working Pressure 120 lbs Tested by hydraulic pressure to Date of test No. of Certificate 42P1
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 38.5 sq ft No. and Description of Safety Valves to
 each boiler Two spring loaded Area of each valve 4.9 sq ft Pressure to which they are adjusted 125 lbs Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers on woodwork 6' boiler lapped 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
 Working pressure of shell by rules Size of manhole in shell
 No. and Description of Furnaces in each boiler Material Outside diameter
 Description of longitudinal joint No. of strengthening rings
 Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Working pressure by rules Material of stays
 Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom
 Diameter at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules
 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
 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
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 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

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THESE LINES

01603-01314-0287



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:— Two crosshead bolts, two connecting rod bottom end bolts, two main bearing bolts, one set of coupling bolts, one set of feed & bilge pump valves and a quantity of assorted bolts nuts & iron of various sizes

The foregoing is a correct description,

Manufacturer.

ORABTREE & CO., LIMITED.

[Signature]
SECRETARY.

Dates of Survey while building

| | |
|--|---|
| During progress of work in shops - - During erection on board vessel - - Total No. of visits | 1909 Apr 21, May 10, June 26, July 5 & 8, Sep 23, Nov 14. |
| | 1910. Feb 9, 10 & 15; March 9, 10 & 14. |
| | 13. |

Is the approved plan of main boiler forwarded herewith yes

" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders 26.6.09 Slides 26.6.09 Covers 26.6.09 Pistons 26.6.09 Rods 26.6.09

Connecting rods 26.6.09 Crank shaft 26.6.09 Thrust shaft 5.7.09 Tunnel shafts 5.7.09 Screw shaft 5.7.09 Propeller 10.2.10

Stern tube 10.2.10 Steam pipes tested 9.3.10 Engine and boiler seatings 10.2.10 Engines holding down bolts 9.3.10

Completion of pumping arrangements 9.3.10 Boilers fixed 11.2.10 Engines tried under steam 9.3.10

Main boiler safety valves adjusted 9.3.10 Thickness of adjusting washers P 1/4 S 5/16 F

Material of Crank shaft steel Identification Mark on Do. 2292 ATG Material of Thrust shaft steel Identification Mark on Do. 457 FL

Material of Tunnel shafts steel Identification Marks on Do. 456 FLS Material of Screw shaft steel Identification Marks on Do. 455 FL

Material of Steam Pipes copper Test pressure 240 lbs

General Remarks (State quality of workmanship, opinions as to class, &c. These engines have been constructed under special survey in accordance with the rules of this Society, on completion they were properly fitted on board & tried under steam with satisfactory results. In my opinion the vessel is eligible for the record + L.M.C. 3.10

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 3.10

Ad. 21.3.10.

[Signature]

The amount of Entry Fee .. £ 1 : 0 : When applied for, 15/3/10

Special .. £ 5 : 6 : 8

Donkey Boiler Fee .. £ :

Travelling Expenses (if any) £ 3 : 5 : 4 15.3.10 10.7.10 29.12.10

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

Committee's Minute

Assigned

FRI 8 APL 1910

FRI. 2 SEP 1910

Thurs. 3.10

FRI. 16 DEC 1910



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Crawford & Co

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