

Hull Rpt No. 23719  
**REPORT ON MACHINERY.**

No. 6796.

Port of MIDDLESBROUGH-ON-THES.Received at London Office 11 MAY 1911No. in Survey held at MiddlesbroughDate, first Survey 10<sup>th</sup> Nov 1910 Last Survey 27<sup>th</sup> April 1911

Reg. Book.

24 Supp on the

S.S. "Oran"

Master

Built at Goole

By whom built

Goole S.B. & R.C. Ltd When built 1911Engines made at Middlesbrough

By whom made

Richardsons, Westgarth & Co. Ltd when made 1911

Boilers made at

By whom made

J. I. Eldringham & Co. when made 1911

Registered Horse Power

Owners

L. A. OnetaPort belonging to B. as

Nom. Horse Power as per Section 28

85

Is Refrigerating Machinery fitted for cargo purposes

NoIs Electric Light fitted Yes**ENGINES, &c.—Description of Engines**Triple ExpansionNo. of Cylinders 3No. of Cranks 3Dia. of Cylinders 13½", 21", 35"Length of Stroke 24"

Revs. per minute

Dia. of Screw shaft

as per rule 7.48"

Material of

screw shaft IronIs 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 ✓Length of stern bush 3'-0"

Dia. of Tunnel shaft

as per rule 6.6"

Dia. of Crank shaft journals

as per rule 6.9"Dia. of Crank pin 7"Size of Crank webs 11½" x 4½"

Dia. of thrust shaft under

collars 7"Dia. of screw 8.3"Pitch of Screw 9.6"No. of Blades 4State whether moveable NoTotal surface 30 sq. ft.No. of Feed pumps 2Diameter of ditto 2½"Stroke 12"Can one be overhauled while the other is at work yesNo. of Bilge pumps 2Diameter of ditto 2½"Stroke 12"Can one be overhauled while the other is at work yesNo. of Donkey Engines TwoSizes of Pumps 5¼" x 3½" x 5"6" x 5½" x 6"

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

In Engine Room Two 2"In Holds, &c. Two 2½"No. of Bilge Injections 1sizes 3"Connected to condenser, or to circulating pump pumpIs a separate Donkey Suction fitted in Engine room & size yes 2½"Are all the bilge suction pipes fitted with roses yesAre the roses in Engine room always accessible yesAre the sluices on Engine room bulkheads always accessible NoneAre all connections with the sea direct on the skin of the ship yesAre they Valves or Cocks BothAre they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yesAre the Discharge Pipes above or below the deep water line on lineAre they each fitted with a Discharge Valve always accessible on the plating of the vessel yesAre the Blow Off Cocks fitted with a spigot and brass covering plate yesWhat pipes are carried through the bunkers Forward suctionHow are they protected wood casingAre all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yesDates of examination of completion of fitting of Sea Connections 16.3.11 of Stern Tube 19.4.11 Screw shaft and Propeller 19.4.11Is the Screw Shaft Tunnel watertight Engines as 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 See Newcastle ReportWorking Pressure 180 lbs

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler Two direct springArea of each valve 5.9"Pressure to which they are adjusted 183 lbsAre they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 2'-5"

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

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

Thickness of plates

crown

Description 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

W1554-0054

Lloyd's Register  
Foundation



# 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 top & two bottom-end connecting rod bolts & nuts. Two main bearing bolts & nuts. One set of coupling bolts & nuts. One set of feed & bilge pump valves. Screw shaft & propeller. Assorted bolts & nuts etc.*

The foregoing is a correct description,

RICHARDSON, WESTGARTH & CO., LTD.

Manufacturer.

*A. Jackson* MANAGER

Dates of Survey while building \_\_\_\_\_

During progress of work in shops - - - *1910 Dec. 15, 21, 27, 29, 1911 Jan. 2, 7, 10, 14, 17, 21, 24, 27, 31*

During erection on board vessel - - - *Apr. 1, 6, 19, 24, 25, 26, 27*

Total No. of visits \_\_\_\_\_ *31*

Is the approved plan of main boiler forwarded herewith \_\_\_\_\_ ☒

Dates of Examination of principal parts—Cylinders *3. 3. 11* Slides *27. 3. 11* Covers *31. 3. 11* Pistons *13. 3. 11* Rods *13. 3. 11*

Connecting rods *13. 3. 11* Crank shaft *27. 3. 11* Thrust shaft *27. 3. 11* Turret shaft *27. 3. 11* Screw shaft *31. 3. 11* Propeller *16. 3. 11*

Steam pipes tested *27. 3. 11* Engine and boiler fittings *16. 3. 11* Engines holding down bolts *27. 3. 11*

Completion of pumping arrangements *27. 3. 11* Boilers fixed *27. 3. 11* Engines tried under steam *27. 3. 11*

Main boiler safety valves adjusted *27. 3. 11* Thickness of adjusting washers *1/2 each*

Material of Crank shaft *Steel* Identification Mark on Do. *501637* Material of Thrust shaft *Steel* Identification Mark on Do. *661637*

Material of Turret shaft *Steel* Identification Mark on Do. *501637* Material of Screw shaft *Steel* Identification Mark on Do. *661637*

Material of Steam Pipes *Tiled drawn copper* Pressure *160 lbs.*

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

*The Engines of this vessel have been constructed under Special Survey, and are of good material and workmanship.*

*The Engines and Boiler of this vessel have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of +LMC 4. 11. in the Register Book.*

It is submitted that this vessel is eligible for THE RECORD. +LMC 5. 11.

*JWD* 27/5/11

The amount of Entry Fee. £ 0 : 0 : \_\_\_\_\_

Special .. £ 7 : 8 : \_\_\_\_\_

Donkey Boiler Fee .. £ : : \_\_\_\_\_

Travelling Expenses (if any) £ : : \_\_\_\_\_

When applied for, *8. 5. 1911*

When received, *12/5/11*

Committee's Minute

Assigned

TUE. 30 MAY 1911

+LMC 5. 11

MACHINERY CERTIFICATE WRITTEN.

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



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Lloyd's Register Foundation

Rpt. 5a.

Date of writing Rpt.

No. in Surv. Reg. Book.

*24* Supp. on the

Master

Engines made

Boilers made

Registered Hor.

MULTITUD.

(Letter for recd)

Boilers One

No. of Certificate

safety valves to

Are they fitted

Smallest distan

Material of sh

Descrip. of riv

Lap of plates

rules 187

boiler 3 pla

Description of

plates: Mater

Top 9 1/4 x 8 1/2

smallest part

Pitch of stays

Area supporte

Lower back pl

Pitch of tubes

water spaces

girder at cent

Working press

separately

holes

If stiffened wi

Working pres

GENERA

The

ma

Survey F

Travelling

Committe

Assigned

Certificate (if required) to be sent to the Committee's Minute.

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