

Rpt. 4.

REPORT ON MACHINERY

No.

25604

Received at London Office

MAY 5-1913

Date of writing Report

19

When handed in at Local Office

10

Port of London

No. in Survey held at Luton

Reg. Book.

Date, First Survey

1st Nov. 1912

Last Survey

10th April 1913

101 on the Express 8° 1903 for 5/8 8° 229 Stug Englishman

(Number of Visits)

Gross

Net

Master

Built at

Hessle

By whom built

Henry Seare

Tons

When built 1913-6

Engines made at Luton

By whom made

The Vauxhalls - West & Co. Ltd. when made 1913

Boilers made at Stockton

By whom made

Riley Bros. when made 1913

Registered Horse Power

Owners

J. Gray & Co. Ltd.

Port belonging to

Hull

Nom. Horse Power as per Section 28

37

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines

Comp. Surface Condensing

No. of Cylinders

2

No. of Cranks

2

Dia. of Cylinders

12 1/2" - 26"

Length of Stroke

20"

Revs. per minute

137

Dia. of Screw shaft

as per rule

6.56"

Material of

Steel

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

Is the after end of the liner made water tight

If the liner does not fit tightly at the part

If two

Length of stern bush

Dia. of Tunnel shaft

Dia. of Crank shaft journals

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

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

In Engine Room

In Holds, &c.

No. of Bilge Injections

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine room

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

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

Are they Valves or Cocks

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

Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

Are the Blow Off Cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers

How are they protected

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

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

Dates of examination of completion of fitting of Sea Connections

of Stern Tube

Screw shaft and Propeller

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

711.5 sq ft

Forced Draft fitted

No. and Description of Boilers

Working Pressure

140 lb

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

26.4

No. and Description of Safety Valves to

each boiler

two spring loaded

Area of each valve

Pressure to which they are adjusted

145

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

abt 2 ft

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

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

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

Lloyd's Register

Foundation

W1343-0161

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	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:— Two top end bolts & nuts, Two bottom end bolts & nuts, Two main bearing bolts & nuts, one set of coupling bolts & nuts, two feed & blow pump valves a quantity of assorted bolts & nuts & iron of various sizes

THE VAUXHALL & WEST HYDRAULIC
ENGINEERING COY. LTD.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 1913. - Nov. 1st. (1913) Feb 13. Mar. 4. 11. Apr. 10.
During erection on board vessel --- 1913. - Apr. 19. May 5. 10. 17. Jun 27
Total No. of visits 5 + 5 = 10

Is the approved plan of main boiler forwarded herewith ☒

Dates of Examination of principal parts—Cylinders 1. 11. 13 Slides 13. 2. 13 Covers 1. 11. 13 Pistons 13. 2. 13 Rods 13. 2. 13

Connecting rods 13. 2. 13 Crank shaft 13. 2. 13 Thrust shaft 10. 4. 13 Tunnel shafts 13. 2. 13 Screw shaft 13. 2. 13 Propeller 10. 4. 13

Stern tube 10. 4. 13 Steam pipes tested 10. 5. 13 Engine and boiler seatings 19. 4. 13 Engines holding down bolts 17. 5. 13

Completion of pumping arrangements 27. 6. 13 Boilers fixed 17. 5. 13 Engines tried under steam 27. 6. 13

Main boiler safety valves adjusted 27. 6. 13 Thickness of adjusting washers Port 3/8 Starb 11/32

Material of Crank shaft Steel Identification Mark on Do. 13. 2. 13 Material of Thrust shaft Steel Identification Mark on Do. N° 193 JAB

Material of Tunnel shafts Steel Identification Marks on Do. N° 194 JAB Material of Screw shafts Steel Identification Marks on Do. N° 195 JAB

Material of Steam Pipes Solid drawn copper Test pressure 300 lbs

General Remarks (State quality of workmanship, opinions as to class, &c. These Engines have been constructed

under special survey, the material has been tested as required by the Rules and the workmanship is good, they have been sent to Hull & be fitted on board.

The machinery of this vessel has been properly fitted on board & secured & on completion was tested under steam & found to work satisfactorily, the safety valves have been adjusted & tested for accumulation.

In my opinion the vessel is eligible for the record + L.M.C. 6.13.

This vessel is fitted with a 8 1/2" centrifugal pump for salvage & fire purposes.

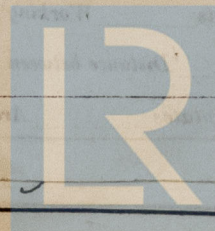
It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 6.13.

The amount of Entry Fee £ 1 : 0 : 0 When applied for, 5 May 1913.
Special 3/3rd 1/2nd 5 : 13 : 0
Donkey Boiler Fee £ : : :
Travelling Expenses (if any) £ 1 : 14 : 4

Committee's Minute FRI JUL 4--1913

Assigned

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



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Lloyd's Register
Foundation

Rpt. 5a

Date of issue

No. in

Reg. Book.

Master

Engines ma

Boilers ma

Registered

MULTIT

(Letter for

Boilers

No. of Cert

safety valve

Are they fit

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Material of

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