

Rpt. 4.

RECEIVED FROM
SURVEYOR.

REPORT ON MACHINERY.

No. 54980

30 JUL 1904

Port of *Liverpool*No. in Survey held at
Reg. Book. Supplement.*Garslow.*Date, first Survey *13 July*Received at London Office *SAT. 20 AUG 1904*Last Survey *22 July 1904*

(Number of Visits)

Master

Built at

Garslow

By whom built

Garslow & Co. Ltd.

Tons

Gross *285.43*Net *64.86*

When built

1904

Engines made at

Glasgow

By whom made

W. Kie & Barker.

when made

Boilers made at

By whom made

when made

Registered Horse Power

Owners *Hugh Linn*

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted

Port belonging to

Liverpool

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Dia. of Cylinders

Length of Stroke

Revs. per minute

No. of Cylinders

No. of Cranks

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

Dia. of Screw shaft as per rule

Material of

in the propeller boss *Yes*If the liner is in more than one length are the joints burned *Yes*

Is the after end of the liner made water tight

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *Yes*

If the liner does not fit tightly at the part

liners are fitted, is the shaft lapped or protected between the liners *Yes*Length of stern bush *2'-5"*

Dia. of Tunnel shaft as per rule

Dia. of Crank shaft journals as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars *6 3/4"*

Dia. of screw

8'-6"

Pitch of screw

9'-0"

as fitted

No. of blades *4*State whether moveable *Yes*

Total surface

25 sq ft

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work *Yes*

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work *Yes*

No. of Donkey Engines

Diameter of ditto

Stroke

Can one be overhauled while the other is at work *Yes*

In Engine Room

Sizes of Pumps

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

In Holds, &c.

No. of bilge injections *1*sizes *3 3/4"*Connected to condenser, or to circulating pump *C.P.*

Is a separate donkey suction fitted in Engine room & size

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 *Yes*Are they Valves or Cocks *Both*Are the discharge pipes above or below the deep water line *above*Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *Yes*Are the blow off cocks fitted with a spigot and brass covering plate *Yes*How are they protected *Yes*Are they each fitted with a discharge valve always accessible on the plating of the vessel *Yes*

What pipes are carried through the bunkers

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*

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Is it fitted with a watertight door *Yes*worked from *Yes*Is the screw shaft tunnel watertight *No tunnel*

BOILERS, &c.—

(Letter for record)

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

Can each boiler be worked separately

Area of fire grate in each boiler

Area of each valve

Pressure to which they are adjusted

No. and Description of safety valves to

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickens

Range of tensile strength

Are they welded or flanged

Descrip. of riveting: cir. seams

long. seams

each boiler

Area of each valve

Pressure to which they are adjusted

No. and Description of safety valves to

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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

Thickens

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickens: Sides

Back

Top

Bottom

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

Material

Thickens

Diameter of rivet holes in long. seams

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Material

Outside diameter

Length of plain part

Thickens

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Th

DONKEY BOILER—

No.

Description

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

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

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

Thickness of furnace crown plates

Stayed by

Working pressure of shell by rules

Working pressure of furnace by rules

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

Total No. of visits

July 13. 16. 22.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

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

This vessel has been built at Garston, and the engines and boiler are being built at Glasgow, to which port she has now been towed; The sea cocks and valves, discharge valves, stern tube, propeller, tail end and thrust shafts, have been fitted and examined at Garston.

Certificate (if required) to be sent to

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

The amount of Entry Fee..	£	:	:	When applied for,
Special	£	:	:19....
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any) £	✓	:	:19....

H. H. Ashton

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

Committee's Minute

LIVERPOOL 19 AUG 1904

Assigned

Deferred for completion.



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Foundation