

REPORT ON MACHINERY.

No. 21803

Port of *Glasgow*Received at London Office *1 HUR 26 MAY 1904*No. in Survey held at
Reg. Book. *Suppl.*
H on the*Glasgow*Date, first Survey *18th Feb*Last Survey *18th March 1904*(Number of Visits *5*)Gross *4027*
Tons Net *3166*Master *Soaneich* Built at *South Shields* By whom built *J Readhead & Sons*When built *1903*Engines made at *South Shields* By whom made *J Readhead & Sons*when made *1903*Boilers made at *do* By whom made *do*when made *1903*

Registered Horse Power

Owners *Gerty S. S. Co. Ltd*Port belonging to *Trieste*Nom. Horse Power as per Section 28 *322*Is Refrigerating Machinery fitted ☒Is Electric Light fitted ☒

ENGINES, &c.—Description of Engines

Classed: + 100 H.P. + 2MB. 603

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

Material of

as fitted

screw shaft

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

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

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

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

sizes

Connected to condenser, or to circulating pump

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

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

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

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

worked from

Auxiliary
BOILERS, &c.—

(Letter for record

(S)

Total Heating Surface of Boilers

*900 sq. ft.*Is forced draft fitted ☒No. and Description of Boilers *One single ended.*Working Pressure *160 lbs*Tested by hydraulic pressure to *320 lbs*Date of test *18/3/04* Can each boiler be worked separately ☒Area of fire grate in each boiler *30 sq. ft.*

No. and Description of safety valves to

each boiler *2 Spring loaded*Area of each valve *3.9 sq. in.*Pressure to which they are adjusted *160 lbs*Are they fitted with easing gear ☒Smallest distance between boilers or uptakes and bunkers or woodwork *15"*Mean dia. of boilers *10" 5"*Length *9' 4"*Material of shell plates *steel*Thickness *1"*

Range of tensile strength

Are they welded or flanged *no*Descrip. of riveting: cir. seams *double*long. seams *treble*Diameter of rivet holes in long. seams *15/32"*Pitch of rivets *7.48"*Lap of plates or width of butt straps *13 1/2"*

Per centages of strength of longitudinal joint

rivets *105*Working pressure of shell by rules *200 lbs*Size of manhole in shell *11 1/8" x 15 3/4"*Size of compensating ring *6 x 1"*No. and Description of Furnaces in each boiler *2 Morrison*Material *steel* Outside diameter *37"*

Length of plain part

top

Thickness of plates

crown

bottom

Description of longitudinal joint *welded*No. of strengthening rings ☒Working pressure of furnace by the rules *172 lbs*Combustion chamber plates: Material *steel* Thickness: Sides *.63"*Back *.59"*Top *.63"*Bottom *.78"*

Pitch of stays to ditto: Sides

Back *6.8 x 6.8"*Top *7.5 x 7.5"*If stays are fitted with nuts or riveted heads *nuts*Working pressure by rules *264 lbs*Material of stays *steel*

Area

at smallest part *1.3"*Area supported by each stay *46"*Working pressure by rules *198 lbs*

End plates in steam space:

Material *steel*Thickness *.787"*Pitch of stays *15 3/4 x 12 3/8"*How are stays secured *nuts*Working pressure by rules *185 lbs*Material of stays *steel*

Area

at smallest part *4.4"*Area supported by each stay *196"*Working pressure by rules *210"*Material of Front plates at bottom *steel*Thickness *15/16"*Material of Lower back plate *steel*Thickness *13/16"*Greatest pitch of stays *13 3/8 x 6 13/16"*

Working pressure of plate by rules

Front *15/16"*Back *7/8"*Mean pitch of stays *8 3/4"*Diameter of tubes *3 1/4"*Pitch of tubes *4 3/8 x 4 3/8"*Material of tube plates *steel*

Thickness: Front

Back

Mean pitch of stays *8 3/4"*Girders to Chamber tops: Material *steel*

Depth and

thickness of girder at centre *6.69 x 2.63"*Length as per rule *22"*Distance apart *7.86"*Number and pitch of Stays in each *2 - 7.48"*Working pressure by rules *220 lbs*Superheater or Steam chest; how connected to boiler *none*

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

How stayed ☒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 ☒

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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 During progress of work in shops— 1904— February 18. 20. 24. March 2. 18.

of Survey During erection on board vessel—

while building Total No. of visits 5.

approved plan held by owner Is the approved plan of main boiler forwarded herewith? yes.

Translated copy herewith.

" " donkey " " "

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

The scantlings of this boiler have been approved by the Committee, who have sanctioned it being put on board the steamer "Gerty" used as an auxiliary boiler, it has been repaired & retubed, & retested.

In my opinion it is eligible to be classed with the main machinery, when properly fitted on board.

This boiler was salvaged from the steamer "Kiddha" which was wrecked 12/07. Made by Schömer & Jensen, Lönning, 1902. having only been a few months in use.

This boiler is being fitted on board at Guao under the inspection of the Society's Surveyor at that port.

Certificate (if required) to be sent to

The amount of Entry Fee. £ : : When applied for,

Special £ 2 : 2 : 1.5.1904

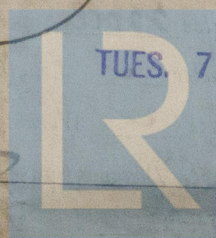
Donkey Boiler Fee £ : : When received, 31.5.04

Travelling Expenses (if any) £ : : 1904

Committee's Minute Glasgow 25 MAY 1904

Assigned Separated for completion

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



TUES. 7 JUN 1904

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