

Port of *Glasgow*

Received at London Office

19

No. in Survey held at *Paisley*
Reg. Book.Date, first Survey *6th April*Last Survey *June 22nd 1904*(Number of Visits *8*)on the *S. S. Glenarm*

Tons

Gross

Net

When built *1904*

Master

Built at *Paisley*By whom built *Bow & Lachlan*Engines made at *Paisley*By whom made *Bow & Lachlan*when made *1904*Boilers made at *do*By whom made *do*when made *1904*

Registered Horse Power

Owners *Glasgow Limestone Co. Ltd*Port belonging to *Glasgow*Nom. Horse Power as per Section 28 *65*Is Refrigerating Machinery fitted *No*Is Electric Light fitted *No*

ENGINES, &c.—Description of Engines

*Compound*No. of Cylinders *2*No. of Cranks *2*Dia. of Cylinders *16" x 34"*Length of Stroke *24"*

Revs. per minute

Dia. of Screw shaft

as per rule *7.89*as fitted *7.916*Material of screw shaft *Steel*Is the screw shaft fitted with a continuous liner the whole length of the stern tube *No*

Is the after end of the liner made water tight

in the propeller boss *Yes*

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 *Painted*Length of stern bush *2' 8"*

Dia. of Tunnel shaft

as per rule *6.62*

Dia. of Crank shaft journals

as per rule *6.62*as fitted *7.8*Dia. of Crank pin *7.8*Size of Crank webs *5" x 13"*

Dia. of thrust shaft under

collars *7.8*Dia. of screw *9" 0*Pitch of screw *10' 3 5/8 11' 3"*No. of blades *4*State whether moveable *No*Total surface *30 sq*No. of Feed pumps *1*Diameter of ditto *2 3/4"*Stroke *12"*

Can one be overhauled while the other is at work

No. of Bilge pumps *1*Diameter of ditto *2 3/4"*Stroke *12"*

Can one be overhauled while the other is at work

No. of Donkey Engines *1*Sizes of Pumps *5 1/2 x 3 1/2 x 5"*

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

In Engine Room *2 - 2"*In Holds, &c. *2 - 2"**1 - 2" each peak*No. of bilge injections *1*sizes *4"*Connected to condenser, or 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

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 *Fore peak tank*How are they protected *Wood ceiling*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, propellers, screw shaft, and all connections examined in dry dock *Before launch*Is the screw shaft tunnel watertight *None*

Is it fitted with a watertight door

worked from

NB 1270

Is forced draft fitted *No*

BOILERS, &c.—

(Letter for record *(S)*)Total Heating Surface of Boilers *1254 sq*Is forced draft fitted *No*No. and Description of Boilers *One Single Ended*Working Pressure *125*Tested by hydraulic pressure to *250 lb*Date of test *19/5/04*

Can each boiler be worked separately

Area of fire grate in each boiler *40 sq*

No. and Description of safety valves to

each boiler *2 Spring loaded*Area of each valve *5.9 sq*Pressure to which they are adjusted *130 lbs*Are they fitted with easing gear *Yes*Smallest distance between boilers or uptakes and bunkers or woodwork *abt 6"*Mean dia. of boilers *11' 6"*Length *9' 6"*Material of shell plates *Steel*Thickness *3/4"*Range of tensile strength *28 ton*Are they welded or flanged *No*Descrip. of riveting: cir. seams *D. R. L.*long. seams *D. R. S. 3 rivs*Diameter of rivet holes in long. seams *3 1/32"*Pitch of rivets *4 29/32"*Top of plates or width of butt straps *14 3/4"*

Per centages of strength of longitudinal joint

rivets *89 1/2*Working pressure of shell by rules *126 lbs*Size of manhole in shell *16 x 12"*Size of compensating ring *Flanged*No. and Description of Furnaces in each boiler *2 plain*Material *Steel*Outside diameter *3' 5 1/4"*

Length of plain part

top *7' 5"*

Thickness of plates

crown *7/8"*Description of longitudinal joint *weld*No. of strengthening rings *1 practical*Working pressure of furnace by the rules *130*Combustion chamber plates: Material *Steel*Thickness: Sides *9/16"*Back *9/16"*Top *9/16"*Bottom *5/8"*Pitch of stays to ditto: Sides *9 x 8"*Back *9 x 8"*Top *9 x 8 1/2"*Are stays fitted with nuts or riveted heads *Yes*Working pressure by rules *139 lb*Material of stays *Steel*Diameter at smallest part *1.24"*Area supported by each stay *7.8 sq*Working pressure by rules *127"*

End plates in steam space:

Material *Steel*Thickness *7/8"*Pitch of stays *16 x 16"*How are stays secured *D. R. L.*Working pressure by rules *134*Material of stays *Steel*Diameter at smallest part *3.49"*Area supported by each stay *2.56 sq*Working pressure by rules *133*Material of Front plates at bottom *Steel*Thickness *2 3/32"*Material of Lower back plate *Steel*Thickness *1 1/16"*Greatest pitch of stays *14"*

Working pressure of plate by rules

Diameter of tubes *3 1/2"*Pitch of tubes *4 3/4"*Material of tube plates *Steel*Thickness: Front *2 3/32"*Back *47/64"*Mean pitch of stays *11 3/4"*Pitch across wide water spaces *14"*Working pressures by rules *120 lbs*Girders to Chamber tops: Material *Steel*

Depth and

thickness of girder at centre *(6 3/4 x 3 1/4) 2*Length as per rule *27 1/2"*Distance apart *8 3/4"*Number and pitch of Stays in each *2 - 9"*Working pressure by rules *150*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

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

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002071-002078-0085

DONKEY BOILER— No. _____ Description *None*

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:— *Propeller, air & circulating pump valves, 6 piston bolts, & the bolts & nuts required by the rules.*

The foregoing is a correct description,

Manufacturer.

FOR BOW, MOLACHLAN, & CO., LTD

Dates of Survey while building { During progress of work in shops - - - April 6, 13, 23 May 11, 19 June 16, 20, 22
During erection on board vessel - - -
Total No. of visits 8

Is the approved plan of main boiler forwarded herewith *Yes*
" " " donkey " " " *None*

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

The engine & boiler of this vessel have been constructed under Special Survey & are of good materials & workmanship. They have been satisfactorily tried under steam.

*This vessel is in my opinion eligible for notation *LMC. 6.04 in the Register-Book.*

It is submitted that this vessel is eligible for THE RECORD

LMC. 6.04

ms
5.7.04
5.7.04

The amount of Entry Fee.. £ 1 : : : When applied for, *4 JUL 1904*
Special £ 9 : 15 : :
Donkey Boiler Fee £ : : : When received, *13.7.04*
Travelling Expenses (if any) £ : : : *13.7.04*

Committee's Minute

Glasgow - 2 JUL 1904

Assigned

*** L.M.C. 6.04**

When fee is paid
MACHINERY CERTIFICATE
WRITTEN 3-7-04

H Gardner-Smith
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Certificate (if required) to be sent to

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