

# REPORT ON MACHINERY.

No. 25165

Received at London Office

WED. JUL 3 - 1912

Date of writing Report 19 When handed in at Local Office 2/7/12 Port of Shell

No. in Survey held at Selby Date, First Survey Jun 20 Last Survey Jun 25 1912  
 Reg. Book. 314 on the S/S GERMANO 30 (Number of Visits 4) Tons } Gross 48  
 Net 21

Master Selby Built at Selby By whom built Lockman & Co When built 1912

Engines made at Jammath By whom made Grattan & Co when made 1912

Boilers made at Stockin By whom made Reley Bros Ltd when made 1912

Registered Horse Power 22 Owners Ensign August de Salle Port belonging to London

Nom. Horse Power as per Section 28 22 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines See London Report No 74742 No. of Cylinders — No. of Cranks —

Dia. of Cylinders — Length of Stroke — Revs. per minute — Dia. of Screw shaft — Material of 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 — 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 2' 2" Front & aft In Holds, &c. 1' 2" L Hold

2' Ejector suction to all bilges with discharge on deck

No. of Bilge Injections 2 1/2 sizes 2 1/2 Connected to condenser, or to circulating pump — Is a separate Donkey Suction fitted in Engine room & size 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 Yes

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 None How are they protected —

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

Dates of examination of completion of fitting of Sea Connections 22.6.12 of Stern Tube 22.6.12 Screw shaft and Propeller 22.6.12

Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door — worked from —

BOILERS, &c.—(Letter for record —) Manufacturers of Steel See Madeley Iron Works Report No 7430

Total Heating Surface of Boilers — Is Forced Draft fitted — No. and Description of Boilers —

Working Pressure — 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 —

Area of each valve — Pressure to which they are adjusted — Are they fitted with easing gear —

Smallest distance between boilers or uptakes and bunkers or woodwork — 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 — End plates in steam space: —

Material of stays — Diameter at smallest part — Area supported by each stay — Working pressure by rules — Material of stays —

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 —

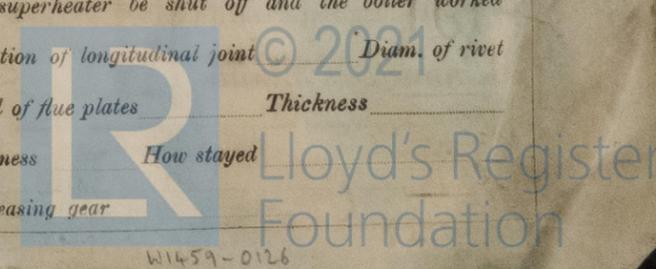
Working pressure by rules — Superheater or Steam chest; how connected to boiler — Can the superheater be shut off and the boiler worked separately —

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 —



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 rods bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts one set of feed & bilge pump valves, one set of air & circulating pump valves one main & one donkey feed chest valves, one propeller, assorted bolts & nuts.*  
 The foregoing is a correct description,

Manufacturer. \_\_\_\_\_

Dates of Survey while building  
 During progress of work in shops— *25/6/12, 26/6/12 - 28/6/12*  
 During erection on board vessel— *19/12 - Jan 20. 21. 22. 25*  
 Total No. of visits— *4*

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

Dates of Examination of principal parts—Cylinders \_\_\_\_\_ Slides \_\_\_\_\_ Covers \_\_\_\_\_ Pistons \_\_\_\_\_ Rods \_\_\_\_\_  
 Connecting rods \_\_\_\_\_ Crank shaft \_\_\_\_\_ Thrust shaft \_\_\_\_\_ Tunnel shafts \_\_\_\_\_ Screw shaft \_\_\_\_\_ Propeller \_\_\_\_\_  
 Stern tube \_\_\_\_\_ Steam pipes tested *2.6.12* Engine and boiler seatings *22.6.12* Engines holding down bolts *22.6.12*  
 Completion of pumping arrangements *25.6.12* Boilers fixed *22.6.12* Engines tried under steam *25.6.12*  
 Main boiler safety valves adjusted *25.6.12* Thickness of adjusting washers *5 3/8 7 1/4*  
 Material of Crank shaft \_\_\_\_\_ Identification Mark on Do. *2974* Material of Thrust shaft \_\_\_\_\_ Identification Mark on Do. \_\_\_\_\_  
 Material of Tunnel shafts \_\_\_\_\_ Identification Marks on Do. *784 J.P. W.D.H.* Material of Screw shafts \_\_\_\_\_ Identification Marks on Do. *783 J.P.*  
 Material of Steam Pipes *Solid drawn copper* Test pressure *400 lbs.*

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

*The engines & boiler have now been fitted & secured on board in accordance with the Rules. They are in good working condition & respectfully submitted as being eligible in my opinion to have record of L.M.C. 6.12 in the Register Book.*

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 6.12.

*J.W.D. 27/7/12*

*ARSL*

The amount of Entry Fee .. £ ✓ : :  
 Special .. .. £ ✓ : :  
 Donkey Boiler Fee .. .. £ ✓ : :  
 Travelling Expenses (if any) £ ✓ : : *16-4*

When applied for, *2/7/1912*  
 When received, \_\_\_\_\_

*John W. Forgyne*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRI. JUL 5 - 1912

Assigned



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MACHINERY CERTIFICATE CONTROL