

REPORT ON MACHINERY.

No. 12455

Port of *Leith*

Received at London Office **14 OCT 1908**

No. in Survey held at *Grangemouth* Date, first Survey *9th Oct* Last Survey *16th Oct* 1908
 eg. Book. **SUPPLEMENT** on the *SS "Caledonia Plata"* (Number of Visits *2*)

aster Built at *Grangemouth* By whom built *The Greenock & Grangemouth Dry Dock* Tons { Gross *2002*
 igines made at *Stockton* By whom made *Blair & Co. Ltd* Net *1323*
 oilers made at *Stockton* By whom made *Blair & Co. Ltd* When built *1908*
 egistered Horse Power Owners *Ybarra & Co* when made *1908*
 om. Horse Power as per Section 28 Port belonging to *Swire*
 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

GINES, &c.—Description of Engines

No. of Cylinders	No. of Cranks
Dia. of Cylinders	Length of Stroke
Revs. per minute	Dia. of Screw shaft
as per rule	Material of screw shaft
as fitted	
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
the propeller boss	If the liner is in more than one length are the joints burned
between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive	If the liner does not fit tightly at the part
ers are fitted, is the shaft lapped or protected between the liners	If two
Dia. of Tunnel shaft	Length of stern bush
as per rule	
as fitted	
Dia. of Crank shaft journals	Dia. of Crank pin
as per rule	Size of Crank webs
as fitted	Dia. of thrust shaft under
llars	Dia. of screw
Pitch of Screw	No. of Blades
State whether moceable	Total surface
o. of Feed pumps	Diameter of ditto
Stroke	Can one be overhauled while the other is at work
o. of Bilge pumps	Diameter of ditto
Stroke	Can one be overhauled while the other is at work
o. of Donkey Engines	Sizes of Pumps
No. and size of Suctions connected to both Bilge and Donkey pumps	
Engine Room	In Holds, &c.

o. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

re 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

re all connections with the sea direct on the skin of the ship *yes* Are they Valves or Cocks *both*

re 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

re 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 *yes*

That pipes are carried through the bunkers How are they protected

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

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

ates of examination of completion of fitting of Sea Connections *9/10/08* of Stern Tube Screw shaft and Propeller

the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

ILERS, &c.—(Letter for record) Manufacturers of Steel

Working 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

an each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

ch 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

ickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

ng. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

er centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

ize of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

ength of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

itch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

aterial of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

aterial 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

ickness 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

itch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

ickness 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

parately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

oles Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

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 :—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building	{	During progress of work in shops - -	
		During erection on board vessel - -	1908 Oct 9. 16.
		Total No. of visits	2

Is the approved plan of main boiler forwarded herewith—

“ “ “ donkey “ “ “ yes

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	Engine and boiler seatings	7/9/08	Engines holding down bolts					
Completion of pumping arrangements	Boilers fixed	Engines tried under steam							
Main boiler safety valves adjusted	Thickness of adjusting washers								
Material of Crank shaft	Identification Mark on Do.	Material of Thrust shaft	Identification Mark on Do.						
Material of Tunnel shafts	Identification Marks on Do.	Material of Screw shafts	Identification Marks on Do.						
Material of Steam Pipes	Test pressure								

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

The engine & boiler seats, fitting of sea valves & cocks examined & found satisfactory. Donkey boiler fixed on board & safety valves adjusted as per Stockton report N^o 5574 returned herewith
In my opinion these parts will be eligible to be classed with the remainder of the machinery when fitted

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

The amount of Entry Fee. . . . £	:	:	When applied for,
Special £	:	:	28. 1/10/1908
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £	:	10 : 6	See book 5514

Committee's Minute

FRI. 20 NOV 1908

Assigned

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



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Foundation