

REPORT ON MACHINERY.

No. 7566.

Received at London Office

Writing Report 19th Dec 1910 When handed in at Local Office 1910 Port of Dundee.
 Date, First Survey 29th August Last Survey 8th November 1910
 Survey held at Dundee (Number of Visits 7)
 on the STEEL S.S. "TINTO"
 Built at Dundee. By whom built The Dundee S.B. Co Ltd When built 1910
 Tons } Gross
 Net }
 when made
 when made
 Owners Port belonging to
 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

FINES, &c.—Description of Engines

No. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft as per rule as fitted	No. of Cylinders	No. of Cranks
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 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					
are fitted, is the shaft lapped or protected between the liners Length of stern bush					
Dia. of Tunnel shaft as per rule as fitted	Dia. of Crank shaft journals as per rule as fitted	Dia. of Crank pin	Size of Crank webs	Dia. of thrust shaft under	
Dia. of screw	Pitch of Screw	No. of Blades	State whether moveable	Total surface	
Dia. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work		
Dia. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work		
Dia. of Donkey Engines		Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps		
Engine Room In Holds, &c.					
Dia. 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		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		
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		
How are they protected		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					
Dates of examination of completion of fitting of Sea Connections		3. 10. 10	of Stern Tube		6. 9. 10
Screw shaft and Propeller		Screw shaft and Propeller			
Is the Screw Shaft Tunnel watertight		Is it fitted with a watertight door		worked from	

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

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

Percentages 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 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

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

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

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

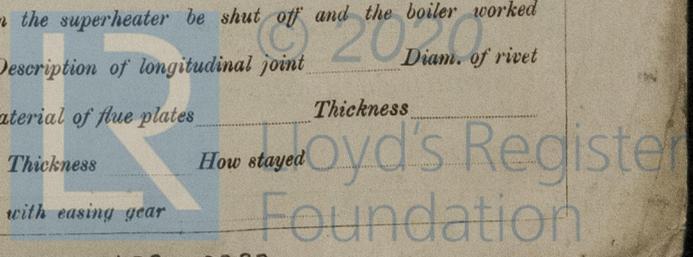
Working pressure by rules Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

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		When made	Where fixed
Made at	By whom made			
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area
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
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 - - }
 Total No. of visits 7. Aug. 29. 30. Sept. 1. 6. 8 Nov. 3. 8.

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
Stern tube	Steam pipes tested	Engine and boiler seatings	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 stern tube and sea connections have been seaweely fitted. The vessel has now proceeded to low to Hull, where the Machinery is to be fitted

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

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

Committee's Minute

TUE. 31 JAN 1911

Assigned



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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.)