

REPORT ON MACHINERY.

No. 12947.

Port of WEST HARTLEPOOL

Received at London Office MON. 21 MAY 1906

No. in Survey held at

Date, first Survey

Last Survey

(Number of Visits 40)

Reg. Book.

Group on the

Master

Built at

By whom built

Tons

When built

Engines made at

By whom made

when made

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &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

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

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.

Fore Hold

No 1 Hold

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

Dates of examination of completion of fitting of Sea Connections

of Stern Tube

Screw shaft and Propeller

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &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

Per centages 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

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

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

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

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

W613-0107

W613-0111

VERTICAL DONKEY BOILER

Manufacturers of Steel

No.	Description	When made	Where fixed
Made at	By whom made	No. of Certificate	Fire grate area
Working pressure	tested by hydraulic pressure to	Date of test	Date of adjustment
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
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by	Description of joint
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey

SPARE GEAR. State the articles supplied :-

1 Spare propeller. & 4 spare gears as per rule requirements

The foregoing is a correct description,
For RICHARDSON, WESTGARTH & CO., LIMITED Manufacturer.

Dates of Survey while building	During progress of work in shops	During erection on board vessel	Total No. of visits
19. 22. 24. 21. Feb. 1. 6. 7. 8. 22. 23. Mar. 2. 5. 6. 12. 21. 22. 26. 28. 29. 30. May 9.	19. 22. 24. 21. Feb. 1. 6. 7. 8. 22. 23. Mar. 2. 5. 6. 12. 21. 22. 26. 28. 29. 30. May 9.	19. 22. 24. 21. Feb. 1. 6. 7. 8. 22. 23. Mar. 2. 5. 6. 12. 21. 22. 26. 28. 29. 30. May 9.	40

Is the approved plan of main boiler forwarded herewith ☒

Dates of Examination of principal parts	Cylinders	Slides	Covers	Pistons	Rods
Connecting rods	8/2/06	Crank shaft	10/1/06	Thrust shaft	22/12/05
Stern tube	6/3/06	Steam pipes tested	29/3/06	Engine and boiler seatings	30/3/06
Completion of pumping arrangements	30/3/06	Boilers fixed	30/3/06	Engines holding down bolts	30/3/06
Main boiler safety valves adjusted	30/3/06	Thickness of adjusting washers	P.B. P. 6 1/16. 3 1/16. S.B. S. 7 1/16. S 5 1/16	Engines tried under steam	30/3/06
Material of Crank shaft	S	Identification Mark on Do.	4302	Material of Thrust shaft	S
Material of Tunnel shafts	S	Identification Marks on Do.	4302	Material of Screw shafts	S. J.
Material of Steam Pipes	Iron.	Test pressure	450 lbs.	Identification Marks on Do.	4302.

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

The Engines & Boilers of this vessel have been constructed under special survey & the materials & workmanship are found good. The engines have been tried under steam & the safety valves of the Main & Donkey Boilers have been adjusted under steam to the working pressure.

The Machinery is now in good & safe working condition & eligible in my opinion to remain as classed & to have the notation of + LMC 5.06 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + LMC 5.06

The amount of Entry Fee	£ 3	When applied for	19. 5. 19. 11
Special	£ 15	When received	22/5/06
Donkey Boiler Fee	£		
Traveling Expenses (if any)	£		

Committee's Minute

Assigned

Shoal Thornton
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

MACHINERY CERTIFICATE WRITTEN.



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