

REPORT ON MACHINERY.

No. 55869.

Port of *Newcastle on Tyne.*

Received at London Office

WED. 16 DEC 1908

No. in Survey held at

S. Shields

Date, first Survey

8th Aug

Last Survey

Dec 1st

1908

Reg. Book.

on the

S.T. ST. AGNES No. 1(Number of Visits *20*)Tons *Gross 205**Net 79*When built *1908-12*

Master

Built at

S. Shields

By whom built

J. T. Pittingham & Co.

Engines made at

S. Shields

By whom made

*G. T. Pittingham*when made *1908-12*

Boilers made at

S. Shields

By whom made

*J. T. Pittingham & Co.*when made *1908*

Registered Horse Power

Owners

R. H. Harte and Sons

Port belonging to

S. Shields

Nom. Horse Power as per Section 28

79

Is Refrigerating Machinery fitted for cargo purposes

h

Is Electric Light fitted

*h*ENGINES, &c.—Description of Engines *Triple Compound*No. of Cylinders *3*No. of Cranks *3*

Dia. of Cylinders

13-2 1/2-35

Length of Stroke

24

Revs. per minute

90

Dia. of Screw shaft

7-3/8

Material of screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Yes

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

Yes

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

Yes

If two liners are fitted, is the shaft lapped or protected between the liners

Yes

Length of stern bush

31

Dia. of Tunnel shaft

as per rule 6-52

Dia. of Crank shaft journals

as per rule 6-94

Dia. of Crank pin

6-7/8

Size of Crank webs

13-4 1/2

Collars

6-7/8

Dia. of screw

9-0

Pitch of Screw

10-6

No. of Blades

4

State whether moveable

No. of Feed pumps

2

Diameter of ditto

2 1/4

Stroke

13

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

2 1/8

Stroke

13

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

One

Sizes of Pumps

Duplex 5 1/2-5 1/2-5

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

In Engine Room

*One 2" Bore*In Holds, &c. *End Compartment One 2" Bore*

No. of Bilge Injections

1

sizes

2 1/4

Connected to condenser, or to circulating pump

C.P.

Is a separate Donkey Suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

Yes

Are the roses in Engine room 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

What pipes are carried through the bunkers

h.m.

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

22-10-08

of Stern Tube

22-10-08

Screw shaft and Propeller

22-10-08

Is the Screw Shaft Tunnel watertight

h.m.

Is it fitted with a watertight door

Yes

worked from

BOILERS, &c.—(Letter for record *S.*) Manufacturers of Steel

Total Heating Surface of Boilers

1420

Is Forced Draft fitted

h

No. and Description of Boilers

One G.L. built S. End.

Working Pressure

180 lbs.

Tested by hydraulic pressure to

Yes

Date of test

Yes

No. of Certificate

7738

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler

h.m.

Area of each valve

Pressure to which they are adjusted

h.m.

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

h.m.

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

h.m.

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

long. seams

h.m.

Diameter of rivet holes in long. seams

Pitch of rivets

h.m.

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

h.m.

Working pressure of shell by rules

h.m.

Size of manhole in shell

Size of compensating ring

h.m.

No. and Description of Furnaces in each boiler

h.m.

Material

Outside diameter

Length of plain part

h.m.

Thickness of plates

h.m.

Description of longitudinal joint

h.m.

No. of strengthening rings

Working pressure of furnace by the rules

h.m.

Combustion chamber plates

h.m.

Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

h.m.

Back

Top

If stays are fitted with nuts or riveted heads

h.m.

Working pressure by rules

Material of stays

h.m.

Diameter at smallest part

Area supported by each stay

h.m.

Working pressure by rules

h.m.

End plates in steam space:

Material

h.m.

Thickness

Pitch of stays

How are stays secured

h.m.

Working pressure by rules

Material of stays

Diameter at smallest part

h.m.

Area supported by each stay

h.m.

Working pressure by rules

h.m.

Material of Front plates at bottom

Thickness

h.m.

Material of Lower back plate

h.m.

Thickness

Greatest pitch of stays

h.m.

Working pressure of plate by rules

Diameter of tubes

h.m.

Pitch of tubes

Material of tube plates

h.m.

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

h.m.

Working pressures by rules

h.m.

Girders to Chamber tops:

Material

Depth and

thickness of girder at centre

h.m.

Length as per rule

h.m.

Distance apart

Number and pitch of stays in each

Working pressure by rules

h.m.

Superheater or Steam chest; how connected to boiler

h.m.

Can the superheater be shut off and the boiler worked

separately

h.m.

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

h.m.

Diam. of rivet

holes

h.m.

Pitch of rivets

Working pressure of shell by rules

h.m.

Diameter of flue

Material of flue plates

h.m.

Thickness

If stiffened with rings

h.m.

Distance between rings

Working pressure by rules

h.m.

End plates: Thickness

h.m.

How stayed

Working pressure of end plates

h.m.

Area of safety valves to superheater

h.m.

Are they fitted with easing gear

h.m.

VERTICAL DONKEY BOILER—Manufacturers of Steel ✓

No. *None Fitted* Description *None Fitted*
 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 and bottom & nut, Two bottom and nut, Two main Bearing bolts, One nut coupling bolt, One nut, Air. circulating, and one 3/4" pump valve, Assorted bolts & nuts.*

The foregoing is a correct description,

Manufacturer. *J. Jones*

Dates of Survey while building { During progress of work in shops— 1908 Aug. 12, 25, 30. Sept. 2, 22. Oct. 12, 22, 29. Nov. 9, 10, 12, 14, 20, 25, 30. Dec. 1
 During erection on board vessel —
 Total No. of visits 20

Is the approved plan of main boiler forwarded herewith *Yes*

Dates of Examination of principal parts—Cylinders 5.9.08 Slides 8.10.08 Covers 11.9.08 Pistons 8.10.08 Rods 11.9.08
 Connecting rods 1.10.08 Crank shaft ✓ Thrust shaft ✓ Tunnel shafts ✓ Screw shaft 8.10.08 Propeller 8.10.08
 Stern tube 1.10.08 Steam pipes tested 14.11.08 Engine and boiler seatings 22.10.08 Engines holding down bolts 4.11.08
 Completion of pumping arrangements 25.11.08 Boilers fixed 12.11.08 Engines tried under steam 25.11.08
 Main boiler safety valves adjusted 25.11.08 Thickness of adjusting washers *P 1/4" S. 7/32"*
 Material of Crank shaft *Steel* Identification Mark on Do. *260 AF* Material of Thrust shaft *Steel* Identification Mark on Do. *260 AF*
 Material of Tunnel shafts *Steel* Identification Marks on Do. ✓ Material of Screw shafts *Steel* Identification Marks on Do. *8.10.08*
 Material of Steam Pipes *Copper* Test pressure *360 lb.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The above Machinery has been constructed under Special Survey. The workmanship and materials are sound and good. It has now been fitted on board the steam vessel in a satisfactory manner. The vessel is eligible, in my opinion for record. + LMC. 12.08*

It is submitted that this vessel is eligible for THE RECORD + LMC. 12.08

JWR

16/12/08

16/12/08

The amount of Entry Fee. £ 0 9
 Special .. £ 11 17 0
 Donkey Boiler Fee .. £ 4 :
 Travelling Expenses (if any) £ : :
 When applied for, 15 DEC 1908
 When received, 17/12/08

W. Lane.
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute FRI. 18 DEC 1908

Assigned + LMC. 12.08

MACHINERY CERTIFICATE WRITTEN.



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