

REPORT ON MACHINERY.

Appl. No. 12588

Port of WEST HARTLEPOOL

Received at London Office WEST 7 JUN 1905

No. in Survey held at West Hartlepool Date, first Survey 21st Feb. Last Survey 28th March 1905

Reg. Book. on the Steamer Venture (Bootham Hou No 340) Tons {Gross
Net

Master Built at By whom built When built

Engines made at Simonsy By whom made Great Central Co of E Co when made 1905

Boilers made at West Hartlepool By whom made Central Marine & Works when made 1905

Registered Horse Power Owners Port belonging to

Nom. Horse Power as per Section 28 66 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 _{as fitted} 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 ^{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.

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

When were stern tube, propeller, screw shaft, and all connections examined in dry dock Is the screw shaft tunnel watertight

Is it fitted with a watertight door worked from

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 1140 sq ft Is forced draft fitted Yes

No. and Description of Boilers One Cylindrical Working Pressure 180 lb Tested by hydraulic pressure to 360 lb

Date of test 27/3/05 Can each boiler be worked separately - Area of fire grate in each boiler 3/17th No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 3.98^{sq} Pressure to which they are adjusted 185 lbs. Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean dia. of boilers 11.8" Length 9.6' Material of shell plates Steel

Thickness 1/16" Range of tensile strength 27.20 Are they welded or flanged both Descrip. of riveting: cir. seams all over long. seams all over

Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7/16" Lap of plates or width of butt straps 16 1/2"

Per centages of strength of longitudinal joint ^{rivets} 96.2% Working pressure of shell by rules 185 lb Size of manhole in shell 16" x 12" _{plate} 95.2%

Size of compensating ring 32" x 28" x 1 1/8" No. and Description of Furnaces in each boiler Two Plain Material Steel Outside diameter 40 1/2"

Length of plain part ^{top} 7 1/2" Thickness of plates ^{bottom} 1 1/16" Description of longitudinal joint Welded No. of strengthening rings -

Working pressure of furnace by the rules 185 lb Combustion chamber plates: Material Steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 1/16"

Pitch of stays to ditto: Sides 9" x 9 1/2" Back 9" x 9 1/2" Top 8" x 9 1/2" If stays are fitted with nuts or riveted heads both Working pressure by rules 181 lb

Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 9" x 9 1/2" Working pressure by rules 180 lb End plates in steam space: Material Steel Thickness 1 1/16" Pitch of stays 16 1/2" x 16" How are stays secured all over Working pressure by rules 185 lb Material of stays Steel

Diameter at smallest part 2 1/2" Area supported by each stay 16 1/2" x 16" Working pressure by rules 194 lb Material of Front plates at bottom Steel

Thickness 1" Material of Lower back plate Steel Thickness 1 1/16" Greatest pitch of stays 18" Working pressure of plate by rules 190 lb

Diameter of tubes 3 1/2" Pitch of tubes 12 1/4" Material of tube plates Steel Thickness: Front 1" Back 1 1/16" Mean pitch of stays 9 1/2"

Pitch across wide water spaces 14 1/2" Working pressures by rules 183 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/2" x 1 1/4" Length as per rule 26' Distance apart 8' Number and pitch of Stays in each two 8 1/2"

Working pressure by rules 189 lb 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

DONKEY BOILER— No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety 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 _____ Per centage of strength of joint _____ Rivets _____ 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 _____

Thickness of furnace crown plates _____ Stayed by _____ Working pressure of shell by rules _____

Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

John B Williams Manufacturer.

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

Total No. of visits

April 13, 25, May 19.

22 + 3 = 25.

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

“ “ “ donkey “ “ “

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

This Main Boiler built under Special Survey in accordance with the approved Plans sent has now been satisfactorily tested by hydraulic pressure to 360 lbs per square inch. It has now been forwarded to Grimsby where it will be placed on board a Steam Trawler The Engine for which are being made by the Great Central Co. Engineering Co of that port.

The boiler has been securely fastened on board the vessel and the safety valves adjusted under steam.

D. Ritchie
Jus.

The amount of Entry Fee. . . £ : : When applied for, *3. 4. 1905*

Special £ 3 : 6 : : *10/16/05*

Donkey Boiler Fee £ : : When received, *11. 4. 05*

Travelling Expenses (if any) £ : : : *5*

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

Committee's Minute

FRI. 9 JUN 1905

Assigned

See Minute on

Gen. Rpt. No 3626



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Certificate (if required) to be sent to the Registrar of Shipping (The Registrar is requested to write on or below the space for Committee's Minute.)