

REPORT ON MACHINERY.

Hpl. No. 12510.

Port of WEST HARTLEPOOL

No. in Survey held at West Hartlepool
Reg. Book.Date, first Survey 17th October 1904 Last Survey 7th Decr 1904
(Number of Visits 33)Received at London Office MUN. 10 APR 1905Master James Hunter Built at Ginnia By whom builtTons } Gross
Net
When builtEngines made at West Hartlepool By whom made Central Marine Engine Works when made 1904Boilers made at West Hartlepool By whom made Central Marine Engine Works when made 1904

Registered Horse Power

Owners

Port belonging to GinniaNom. Horse Power as per Section 28 66

Is Refrigerating Machinery fitted

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Dia. of Cylinders _____ Length of Stroke _____ Revs. per minute _____ No. of Cylinders _____ No. of Cranks _____

Is the screw shaft fitted with a continuous liner the whole length of the stern tube _____ Dia. of Screw shaft as per rule _____ Material of screw shaft _____

in the propeller boss _____ If the liner is in more than one length are the joints burned _____ Is the after end of the liner made water tight _____

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 _____

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 1142 sq ft Is forced draft fitted no

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

Date of test 6/12/04 Can each boiler be worked separately _____ Area of fire grate in each boiler 27 sq ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 3.98 sq in Pressure to which they are adjusted 185 lb Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 9 1/2 Mean dia. of boilers 12' 0" Length 9' 9" Material of shell plates steel

Thickness 1/32 Range of tensile strength 27-30 Are they welded or flanged both Descrip. of riveting: cir. seams _____ long. seams all chain stitch

Diameter of rivet holes in long. seams 1/16 Pitch of rivets 7/16 Lap of plates or width of butt straps 15 1/4

Per centages of strength of longitudinal joint _____ rivets 88.2% plate 85.3% Working pressure of shell by rules 180 lb Size of manhole in shell 16" x 12"

Size of compensating ring 32" x 28" x 1 1/8" No. and Description of Furnaces in each boiler two bottom Material steel Outside diameter 37 1/2"

Length of plain part top 15" bottom 15" Thickness of plates crown 19/32" bottom 19/32" Description of longitudinal joint welded No. of strengthening rings four

Working pressure of furnace by the rules 189 lb Combustion chamber plates: Material steel Thickness: Sides 10/16" Back 2 1/32" Top 10/16" Bottom 13/16"

Pitch of stays to ditto: Sides 9" Back 8 1/4" Top 9" If stays are fitted with nuts or riveted heads none Working pressure by rules 181 lb

Material of stays steel Diameter at smallest part 1 7/8" Area supported by each stay 9.2 sq in Working pressure by rules 252 lb End plates in steam space: Material steel Thickness 1/16" Pitch of stays 18" x 15 1/4" How are stays secured all nut Working pressure by rules 182 lb Material of stays steel

Diameter at smallest part 2 2 1/32" Area supported by each stay 18" x 15 1/4" Working pressure by rules 252 lb Material of Front plates at bottom steel

Thickness 1/32" Material of Lower back plate steel Thickness 19/16" Greatest pitch of stays 16" Working pressure of plate by rules 180 lb

Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates steel Thickness: Front 1 1/32" Back 2 1/32" Mean pitch of stays 9"

Pitch across wide water spaces 15" Working pressures by rules 182 lb Girders to Chamber tops: Material steel Depth and thickness of girder at centre 9" x 1 1/4" Length as per rule 30" Distance apart 9" Number and pitch of Stays in each two 8 1/4"

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 _____

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,
W. C. Borrowman Manufacturer.

Dates of Survey while building { During progress of work in shops - 1904 Oct. 17, 18, 20, 21, 24, 26, 27, 28, 31, Nov. 1, 2, 3, 4, 8, 9, 10, 11, 14, 15, 17, 18, 21, 22, 23, 24, 25, 28, 29, Dec. 1, 2, 5, 6, 7
During erection on board vessel - March 14th, 16, 20, 24, 27, 1905.
Total No. of visits 33 Sal-Gus.

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 has been constructed under Special Survey in accordance with the approved Photo Plans and has been satisfactorily tested by hydraulic pressure. It has now been forwarded to Grimsby where it will be placed on board the Steam Trawler "Binnick" built by Messrs. Goole & Co.

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

The amount of Entry Fee. £ : : When applied for,
Special £ 3 : 6 : 12 1904
Donkey Boiler Fee £ : : When received,
Travelling Expenses (if any) £ : : Jan 1905

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

Committee's Minute

TUES. 11 APR 1905

Assigned



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Foundation