

REPORT ON MACHINERY.

WED. 5 JAN 1898

Port of WEST HARTLEPOOL.

Received at London Office 18

No. in Survey held at
Reg. Book.

WEST HARTLEPOOL.

Date, first Survey

10th Dec. 1896, Last Survey 4th Jan 1898

(Number of Visits 122.

1898

on the

S.S. "Victoria."

Tons

Gross 6849

Net 4384

When built

1894

Master

Built at WEST HARTLEPOOL.

By whom built

Gurney, Kitchy & Co. Ltd.

Engines made at

Hartlepool

By whom made

Thos. Richardson & Son. Ltd.

when made

1897

Boilers made at

do

By whom made

do

when made

1897

Registered Horse Power

Owners

Wilson Gurney & Lyland Ltd.

Port belonging to WEST HARTLEPOOL.

Nom. Horse Power as per Section 28

963

Is Electric Light fitted

yes.

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

Diameter of Cylinders 32.54.90 Length of Stroke 66 Revolutions per minute 62 Diameter of Screw shaft as per rule 14.079 as fitted 18.25

Diameter of Tunnel shaft as fitted 14.25 Diameter of Crank shaft journals 18.25 Diameter of Crank pin 18.25 Size of Crank webs 12.25 x 2.125

Diameter of screw 20.3 Pitch of screw 25.0 No. of blades 4 State whether moveable yes Total surface 120

No. of Feed pumps 2 Diameter of ditto 9.5 Stroke 26 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 4.5 Stroke 36 Can one be overhauled while the other is at work yes

No. of Donkey Engines 1 Donkey 1 Sizes of Pumps D6.4.10 P.7.5 Suction No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Bell 4.5 P.3.5 S.3.5 Pulverometer 5 In Holds, &c. Fore hold one 3.5, two 3.5 in each

forward well, two 3.5 in each after well & one 2.5 in tunnel well.

No. of bilge injections 1 sizes 11 Connected to condenser, or to centrifugal pump Is a separate donkey suction fitted in Engine room & size yes 4.5

Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none

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 Below

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 yes

What pipes are carried through the bunkers none 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

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

Is it fitted with a watertight door yes worked from Middle platform & engine room

BOILERS, &c.—

(Letter for record (A))

Total Heating Surface of Boilers 121418

Is forced draft fitted no

No. and Description of Boilers Two double & two single ended Working Pressure 190 Tested by hydraulic pressure to 380 lb

Date of test 23.8.97 Can each boiler be worked separately yes Area of fire grate in each boiler 99.0 DEB No. and Description of safety valves to

each boiler Two Spring Area of each valve 14.18 Pressure to which they are adjusted 95 lb Are they fitted

with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork Ship Side Mean diameter of boilers 15.3

Length 17.6 Material of shell plates Steel Thickness 1.5 Description of riveting: circum. seams Lapped, double long. seams Butts, battle

Diameter of rivet holes in long. seams 1.5 Pitch of rivets 10 Lap of plates or width of butt straps 21.5

Per centages of strength of longitudinal joint rivets 89.5 plate 85.0 Working pressure of shell by rules 199.5 Size of manhole in shell 16.5 x

Size of compensating ring 2.6 x 2.6 x 1.5 No. and Description of Furnaces in each boiler 6 Morrison Material Steel Outside diameter 4.0

Length of plain part top 6.9 bottom 6.9 Thickness of plates crown 5.8 bottom 5.8 Description of longitudinal joint Welded No. of strengthening rings

Working pressure of furnace by the rules 210 Combustion chamber plates: Material Steel Thickness: Sides 3.5 Back 3.5 Top 3.5 Bottom 1.5

Pitch of stays to ditto: Sides 8.5 Back 8.5 Top 8.5 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 194

Material of stays Iron Diameter at smallest part 1.5 Area supported by each stay 74 Working pressure by rules 209 End plates in steam space:

Material Steel Thickness 1.5 Pitch of stays 16.5 x 18 How are stays secured Nuts Working pressure by rules 240 Material of stays Iron

Diameter at smallest part 3.5 Area supported by each stay 292 Working pressure by rules 212 Material of Front plates at bottom Steel

Thickness 1.5 Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes 3.5 Pitch of tubes 4.5 Material of tube plates Steel Thickness: Front 1.5 Back 3.5 Mean pitch of stays 9

Pitch across wide water spaces 14.5 Working pressures by rules 195 Girders to Chamber tops: Material Iron Depth and

thickness of girder at centre 10 x 2.5 Length as per rule 3.6 Distance apart 8.5 Number and pitch of Stays in each Four 8.5 pitch

Working pressure by rules 190 Superheater or Steam chest; how connected to boiler none 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

Lloyd's Register
Foundation

HPL 380-02371

DONKEY BOILER— Description *Two donkey boiler fitted.*

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 _____ Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
Description of riveting long. seams _____ Diameter 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: *Two propeller blades, An pump bucket and 3 valves
beautiful pump Jan 3 Shaft, piston ring for M.P. 3 Sub pistons, 30 boiler tubes, 50
condenser tubes, 6 escape valve springs for each engine, 8 safety valve springs, 3 valve
spindles, 1 pair of bottom end bushes, 8 valves for valves 2 for bilge pumps, and
The foregoing is a correct description, sent according to the Rules.*

For THOMAS RICHARDSON & SONS, LIMITED,

Manufacturer.

Dates { During progress of
of Survey { work in shops - -
while { During erection on
building { board vessel - -
Total No. of visits 122.

Director.

1896 - Dec 10 15 21 23 28 29 30 1897 - Jan 5 9 13 16 21 25 26 27 29 30 Feb 1 4 11 12 17 18 19 22 23 24 26
March 1 3 4 9 15 17 20 27 30 31 April 2 6 8 13 15 22 23 24 26 May 4 5 8 11 12 13 18 20 21 22 25
26 27 28 31 June 1 3 4 14 15 16 19 29 July 1 2 5 6 9 12 15 22 23 26 28 29 30 Aug 4 5 9 10 12 13
17 19 23 27 31 Sept 6 10 14 15 18 20 22 23 Oct 2 5 9 12 18 22 30 Nov 2 4 5 9 10 13 24 30
Dec 6 9 13 14 28 1898 - Jan 4

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

*The machinery has been
Specially Surveyed during construction the material and
workmanship good & renders the vessel eligible in my opinion
to have the Record L.M.C. 1.98 in the Register Book of the Society.*

*The heating surface in two double ended boilers = 4910 sq
do do two single ended boilers = 4231 sq
Total 12141 sq*

*This vessel is to be placed in the Dry Dock of the Wallsend
Shipway Co. Ld. at Wallsend, & while the Newcastle
Surveyors have been allowed.*

*The machinery & boilers of this vessel
have been constructed under Special
Survey. It is submitted that she is
eligible to have L.M.C. 1.98
recorded*

J.M. 5/1/98

The amount of Entry Fee. £ 3 :
Special .. £ 58 : 3
Donkey Boiler Fee .. £ :
Travelling Expenses (if any) £ :
When applied for,
4.1.98
received
5/1/98

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

Committee's Minute

FRI. 14 JAN 1898

Assigned



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Foundation