

REPORT ON MACHINERY.

Port of WEST HARTLEPOOL

Received at London Office

No. in Survey held at *West Hartlepool* Date, first Survey *7th June, 1900* Last Survey *25th June, 1901*
 Reg. Book. *11409* (Number of Visits *74*)
 Name on the *S.S. "Nassovia"* Tons *Gross 3835 Net 2478*
 Master *W. Prehn* Built at *West Hartlepool* By whom built *R. Gray & Co. Ltd.* When built *1901*
 Engines made at *West Hartlepool* By whom made *Central Marine Engine Works, Ltd.* when made *1901*
 Boilers made at *do* By whom made *do* when made *1901*
 Registered Horse Power *400* Owners *Hamburg Amerikanische Packetfahrt Actien Gesellschaft* Port belonging to *Hamburg*
 Nom. Horse Power as per Section 28 *274* Is Refrigerating Machinery fitted *no* Is Electric Light fitted *no*

ENGINES, &c.—Description of Engines *Quadruple on five cranks* No. of Cylinders *5* No. of Cranks *5*
 Dia. of Cylinders *17.24.34.42.42* Length of Stroke *42* Revs. per minute *65* Dia. of Screw shaft *as per rule 11.3 as fitted 12* Lgth. of stern bush *4.8*
 Dia. of Tunnel shaft *as per rule 10.2 as fitted 11* Dia. of Crank shaft journals *as per rule 10.8 as fitted 11* Dia. of Crank pin *11* Size of Crank webs *16.8.6.8* Dia. of thrust shaft under
 flars *11.2* Dia. of screw *16.0* Pitch of screw *14.0* No. of blades *4* State whether moveable *no* Total surface *85.4*
 No. of Feed pumps *2* Diameter of ditto *3* Stroke *33* Can one be overhauled while the other is at work *yes*
 No. of Bilge pumps *2* Diameter of ditto *3.2* Stroke *33* Can one be overhauled while the other is at work *yes*
 No. of Donkey Engines *3* Sizes of Pumps *4x8-6.2, 6x3, 12x10* No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room *Seven, four 3.2, one 3.2, two 2.2* In Holds, &c. *three, two 3.2 in each hold & one 2.2 in tunnel well*
 No. of bilge injections *1* sizes *5* Connected to condenser, or to circulating pump *Pump* Is a separate donkey suction fitted in Engine room & size *yes 3.2*
 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 *Above*
 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*
 That 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 *24.1.00* Is the screw shaft tunnel watertight *yes*
 Is it fitted with a watertight door *yes* worked from *upper platform*

BOILERS, &c.— (Letter for record *(S)*) Total Heating Surface of Boilers *3010* Is forced draft fitted *Blow down*
 No. and Description of Boilers *Two Single ended Steel* Working Pressure *268 1/2* Tested by hydraulic pressure to *536 lb*
 Date of test *17.12.00* Can each boiler be worked separately *yes* Area of fire grate in each boiler *45.5* No. and Description of safety valves to
 each boiler *Two Spring* Area of each valve *7.04* Pressure to which they are adjusted *240 lb* Are they fitted with easing gear *yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *2.6* Mean dia. of boilers *13.0* Length *10.7* Material of shell plates *Steel*
 Thickness *23/32* Range of tensile strength *29-32* Are they welded or flanged *Both* Descrip. of riveting: cir. seams *none* long. seams *Double*
 Diameter of rivet holes in long. seams *1 1/16* Pitch of rivets *10 3/4* Lap of plates or width of butt straps *24 3/8*
 Percentages of strength of longitudinal joint
 rivets *89* Working pressure of shell by rules *310 lb* Size of manhole in shell *ends 16.12*
 plate *84.3*
 Size of compensating ring *2.3-2.0-1* No. and Description of Furnaces in each boiler *3 Morrison* Material *Steel* Outside diameter *3.1 1/2*
 Length of plain part
 top *6.6* crown *1 1/16* Description of longitudinal joint *Welded* No. of strengthening rings *-*
 bottom *6.9* bottom *1 1/16*
 Working pressure of furnace by the rules *278* Combustion chamber plates: Material *Steel* Thickness: Sides *1/16* Back *1/16* Top *1/16* Bottom *1 1/4*
 Pitch of stays to ditto: Sides *7 5/8* Back *7 5/8* Top *7 5/8* If stays are fitted with nuts or riveted heads *Into* Working pressure by rules *280*
 Material of stays *Steel* Diameter at smallest part *1.63* Area supported by each stay *58.0* Working pressure by rules *324* End plates in steam space:
 Material *Steel* Thickness *1 3/32* Pitch of stays *14 1/2, 14 1/2* How are stays secured *By nuts* Working pressure by rules *269* Material of stays *Steel*
 Diameter at smallest part *2.91* Area supported by each stay *210* Working pressure by rules *316* Material of Front plates at bottom *Steel*
 Thickness *7/8* Material of Lower back plate *Steel* Thickness *1 3/32* Greatest pitch of stays *14* Working pressure of plate by rules *289*
 Diameter of tubes *3 1/4* Pitch of tubes *4 5/8* Material of tube plates *Steel* Thickness: Front *7/8* Back *1 5/16* Mean pitch of stays *9 1/4*
 Pitch across wide water spaces *14 1/4* Working pressures by rules *295 lb* Girders to Chamber tops: Material *Steel* Depth and
 thickness of girder at centre *9 3/4 x 1 1/2* Length as per rule *2.5* Distance apart *7* Number and pitch of Stays in each *Two 7 5/8 pitch*
 Working pressure by rules *300 lb* Superheater or Steam chest; how connected to boiler *as per plan approved* 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
 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. 1 Description Cylindrical Single ended Steel
 Made at Stockton By whom made J. Ludron & Co When made 13.11.00 Where fixed Lothbells
 Working pressure 80 tested by hydraulic pressure to 160 No. of Certificate 2338 Fire grate area 326 Description of safety valves Spring
 No. of safety valves 2 Area of each 7.07 Pressure to which they are adjusted 82 lb If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no Dia. of donkey boiler 10.0 Length 10.0 Material of shell plates Steel Thickness 1/2 Range of tensile strength 26-32 Descrip. of riveting long seams h.r. Stays Dia. of rivet holes 13/16 Whether punched or drilled Drilled Pitch of rivets 4 1/2
 Lap of plating 8 1/2 Per centage of strength of joint 80.6 Rivets 80.6 Thickness of shell end plates 5/8 Pitch 4 1/2 Radius of do. 18 1/2 No. of Stays to do. 10
 Dia. of stays 2 7/16 in Diameter of furnace Top 3.0 Bottom - Length of furnace 6.7 Thickness of furnace plates 1/2 Description of joint Lap Single Thickness of furnace corn' plates 1/2 Stayed by 1 1/8 Stays 7 3/4 pitch Working pressure of shell by rules 86 lb
 Working pressure of furnace by rules 90 lb Diameter of uptake 3 Thickness of uptake plates 5/8 Thickness of water tubes 5/16

SPARE GEAR. State the articles supplied:— 2 main bearing bolts, 2 top end bolts, 2 bottom end bolts
2 sets of shaft coupling bolts, 1 set of crank coupling bolts all fitted with nuts, 1 set
of eccentric straps & cheeks, 1 set of bilge pump valves, 1 set of feed pump valves, Springs
for J.P. piston, 1 cast iron propeller, 1 propeller shaft, 1 crank shaft, slide valve spindle
1 pair of top end, 1 pair of bottom end straps, Air and
circulating pump, sockets & rods, 1 set of pump links
3% condenser boiler tubes, Safety valves
 The foregoing is a correct description, Wm. C. Worroum Manufacturer. with accessories

Dates of Survey while building	During progress of work in shops—	14.00. June 7. 11. 18. 22. 25. 28. July 16. 31. Aug. 2. 3. 16. 17. 20. 22. 30. Sept. 3. 5. 7. 12. 17. 18. 21. 25. 26. Oct. 3. 4. 5. 8. 10. 11. 12. 13.	Is the approved plan of main boiler forwarded herewith	yes
	During erection on board vessel—	15. 16. 17. 18. 19. 22. 23. 25. 26. 30. Nov. 2. 5. 6. 7. 8. 9. 10. 12. 14. 15. 16. 19. 20. 21. 23. 26. 27. 28. Dec. 4. 5. 7. 11. 14. 17. 20. 21. 27. 28. 1901. Jan. 15. 16. 24. 26.		no
	Total No. of visits	74		no

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery has been specially
inspected during construction the material and workmanship good & renders
the vessel eligible in my opinion to have the Record * LMC 1.01 in the
Register Book of the Society)

It is submitted that this vessel is eligible for THE RECORD. + LMC 1.01. F.D.

R.S.
31.1.01

51.1.01

The amount of Entry Fee..	£ 2	When applied for,	30.1.1901
Special	£ 33 14	When received,	30.1.1901
Donkey Boiler Fee	£		
Travelling Expenses (if any)	£		

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

Committee's Minute FRI. 1 FEB 1901
Assigned

MACHINERY CERTIFICATE WRITTEN.



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Certificate (if required) to be sent to W. Huxtablepool.