

## REPORT ON MACHINERY.

Port of MIDDLESBROUGH-ON-TEES.

MON. 22 OCT 1900

Received at London Office

18

No. in Survey held at Middlebro'-on-Tees. Date, first Survey 25 July 1899 Last Survey Oct 16 1900  
 Reg. Book. (Number of Visits 123)  
 On the Steel Screw Steamer Morocco. Tons { Gross 3841.53  
 Net 2515.95  
 Master Richard Hayes Built at H. Hartlepool. By whom built Furness, Withy & Co. Ltd When built 1900.  
 Engines made at Middlebro'-on-Tees. By whom made Sir C Furness, Westgarth & Co. Ltd when made 1900.  
 Boilers made at " By whom made " when made 1900.  
 Registered Horse Power 320 Owners J. Wilson Sons & Co. Ltd. Port belonging to Hull.  
 Nom. Horse Power as per Section 28 314. Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Inverted triple expansion No. of Cylinders 3. No. of Cranks 3.  
 Dia. of Cylinders 25", 40", 66" Length of Stroke 45" Revs. per minute 65. Dia. of Screw shaft as per rule 12.54" Lgth. of stern bush 4'9"  
 Dia. of Tunnel shaft as per rule 11.38" Dia. of Crank shaft journals as per rule 11.94" Dia. of Crank pin 12 1/2" Size of Crank webs 18" x 8 1/2" Dia. of thrust shaft under  
 rollers 12 1/2" Dia. of screw 14'0" Pitch of screw 16'6" No. of blades 4 State whether moveable No Total surface 85.2  
 No. of Feed pumps 2. Diameter of ditto 3 1/4" Stroke 25 1/2" Can one be overhauled while the other is at work Yes.  
 No. of Bilge pumps 2. Diameter of ditto 4" Stroke 25 1/2" Can one be overhauled while the other is at work Yes.  
 No. of Donkey Engines 3. Sizes of Pumps Feed. 7 1/2" x 5" x 6" Duplex No. and size of Suctions connected to both Bilge and Donkey pumps  
1" dia. to No. 1 hold, 1 1/2" dia. to No. 2 hold, 1 1/2" dia. to No. 3 hold, 1 1/2" dia. to No. 4 hold, 1 1/2" dia. to After peak.  
 No. of bilge injections 1 sizes 6" Connected to condenser, or to circulating pump C. P. Is a separate donkey suction fitted in Engine room & size Yes: 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 Valves.  
 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  
 Are pipes 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 New vessel 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 5040 Is forced draft fitted No.  
 No. and Description of Boilers Two: cyl. built, single ended. Working Pressure 165 lbs. Tested by hydraulic pressure to 320 lbs.  
 Date of test 6.9.00. Can each boiler be worked separately Yes. Area of fire grate in each boiler 62.4 No. and Description of safety valves to  
 each boiler Two: Spring loaded. Area of each valve 9.62 Pressure to which they are adjusted 170 lbs. Are they fitted with easing gear Yes.  
 Smallest distance between boilers or uptakes and bunkers or woodwork 20" Mean dia. of boilers 15'9" Length 10'6" Material of shell plates S.  
 Thickness 1 1/8" Range of tensile strength 29-32 Are they welded or flanged No. Descrip. of riveting: cir. seams S. R. lap. long. seams abl. straps.  
 Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 9" Lap of plates on width of butt straps 1'9 1/2" x 1 1/4"  
 Percentages of strength of longitudinal joint 85. Working pressure of shell by rules 149.4 lbs. Size of manhole in shell 16" x 12"  
 Size of compensating ring 34 1/2" x 29" x 1 1/8" No. and Description of Furnaces in each boiler 3: Deighton Material S. Outside diameter 45 3/4"  
 Length of plain part top 7'0" bottom 7'0" Thickness of plates crown 1 1/8" bottom 3/32" Description of longitudinal joint weld. No. of strengthening rings ✓  
 Working pressure of furnace by the rules 173.8 Combustion chamber plates: Material S. Thickness: Sides 3/32" Back 1/32" Top 1/32" Bottom 1/16"  
 Pitch of stays to ditto: Sides 7" x 7 1/8" Back 7 1/4" x 7 1/8" Top 7 1/4" x 7 1/8" If stays are fitted with nuts or riveted heads Nuts. Working pressure by rules 195.5  
 Material of stays S. Diameter at smallest part 1 3/8" off: Area supported by each stay 62 Working pressure by rules 193.5 End plates in steam space:  
 Material S. Thickness 1 1/8" Pitch of stays 15 3/4" x 15 3/4" How are stays secured S. N. & W. Working pressure by rules 164.8 Material of stays S.  
 Diameter at smallest part 2 1/2" Area supported by each stay 248 Working pressure by rules 200.3 Material of Front plates at bottom S.  
 Thickness 1 1/8" Material of Lower back plate S. Thickness 3/32" Greatest pitch of stays 14" Working pressure of plate by rules 220.  
 Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates S. Thickness: Front 1" Back 1 1/8" Mean pitch of stays 11 1/4"  
 Pitch across wide water spaces 14 1/4" Working pressures by rules F. 139.1 Girders to Chamber tops: Material S. Depth and  
 thickness of girder at centre 8" x 1 1/2" Length as per rule 29' Distance apart 4 1/2' Number and pitch of Stays in each 2: 4 1/8"  
 Working pressure by rules 220. 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 ✓  
 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 ✓

008804-008811-0260



DONKEY BOILER— No. *One*. Description *Blaker's patent (wet back).*  
Made at *Middlesbrough* By whom made *Sir C. Furness, Westgarth & Co. Ltd* When made *28.6.00* Where fixed *Stokehold*  
Working pressure *80*. tested by hydraulic pressure to *160*. No. of Certificate *2239*. Fire grate area *25 1/2*. Description of safety valves *Spring*  
No. of safety valves *2* Area of each *5.90* Pressure to which they are adjusted *83 lbs* If fitted with easing gear *Yes* If steam from main boiler  
enter the donkey boiler *No* Dia. of donkey boiler *4' 6"* Length *16' 3"* Material of shell plates *S.* Thickness *3/8"* Range of  
strength *32* Descrip. of riveting long. seams *D. 19. lap.* Dia. of rivet holes *1 1/8"* Whether punched or drilled *Drilled* Pitch of rivets  
Lap of plating *4 1/2* Per centage of strength of joint Rivets *1 1/2* Thickness of shell crown plates *3/8"* Radius of do. *4 1/2* No. of Stays to do.  
Dia. of stays. *1* Diameter of furnace Top *29 1/2"* Bottom *68"* Length of furnace *60"* Thickness of furnace plates *5/8"* Descrip.  
joint *Lap Single*. Thickness of ~~furnace crown~~ plates *3/8"* Stayed by *1 1/2* off. *S. stays* *10 1/2' x 8 1/2' pitch* Working pressure of shell by rules *80*  
Working pressure of furnace by rules *93.4* Diameter of ~~uptake~~ *2 1/2"* Thickness of ~~uptake~~ plates *F. 3/8" B. 5/8"* Thickness of ~~water~~ tubes *5/16"*

SPARE GEAR. State the articles supplied:— *To Rule requirements & in addition. 1/propeller; 10 valves for  
to suit either eng: 1 Air & 1 Air: pump rod & bucket; 1/2 set each Air & Air: pump valves; 1 set each  
Feed & Bilge pump valves; 2 donkey pump valves; 2 rings for pit. valves; 1 set springs L.P. piston;  
1 Safety valve spring; 1 escape valve spring each eng; 1 feed check valve; Bolts & nuts assorted  
of various sizes.*  
The foregoing is a correct description,  
FOR SIR CHRISTOPHER FURNESS, WESTGARTH & CO., LTD. Manufacturers of Engines & Boilers.

*H. Jackson.*  
Dates of Survey { During progress of work in shops— 1899 July 23, 31, Aug. 3, 10, 14, 22, 23, 24, 25, 29, 30, Sept. 4, 25, 26, 27, Oct. 2, 4, 9, 11, 14, 17, 19, 25, 27, Nov. 1, 4, 5, 10, 11, 15, 17, 18, 21, 26, 27, 28, Dec. 1, 6, 8, 11, 13, 14, 15, 18, 20, 22, 1900 Jan. 4, 5, 6, 9, 11, 13, 16, 19, 23, 26, 29, 30, Feb. 3, 9, 12, 15, 17, 23, 24, Mar. 1, 4, 5, 6, 7, 17, 19, 21, 23, 27, 29, Apr. 2, 4, 10, 19, 23, 30, May 2, 4, 9, 12, 15, 18, 22, 26, June 1, 7, 12, 18, 24, 25, 27, 29, 30, July 4, 5, 6, 7, 17, 19, 21, 23, 27, 29, August 1, 3, 7, 10, 14, 16, 17, 18, 24, 27, 30, Sept. 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Oct. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Nov. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Dec. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 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