

REPORT ON MACHINERY.

No. 47430

Port of Newcastle-on-Tyne

No. in Survey held at South Shields
Reg. Book. S.S. QUEENWOOD
on the

Date, first Survey July 16 '03 Last Survey 5th August 1904
(Number of Visits 46)

Received at London Office

Master By whom built Rotterdam By whom built G. Vuijk Tons { Gross
Net
When built 1904
Engines made at South Shields By whom made G. J. Grey when made 1904
Boilers made at South Shields By whom made Messrs J. V. Eltringham & Co when made 1904
Registered Horse Power 133 Owners Port belonging to
Nom. Horse Power as per Section 28 132.8 Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Tri-Compound No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 17-20 1/2-46 Length of Stroke 30 Revs. per minute 80 Dia. of Screw shaft 7 7/8 Material of screw shaft Cast Iron
Is the screw shaft fitted with a continuous liner the whole length of the stern tube No Is the after end of the liner made water tight in the propeller boss Yes If the liner is in more than one length are the joints burned Painted 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 Painted If two liners are fitted, is the shaft lapped or protected between the liners Painted Length of stern bush 3-4
Dia. of Tunnel shaft 8.41 as per rule 8.5 Dia. of Crank shaft journals 8.23 as per rule 8.76 Dia. of Crank pin 8 7/8 Size of Crank webs 5 1/2 x 1 1/2 Dia. of thrust shaft under collars 8 7/8 Dia. of screw 11.9 Pitch of screw 14 No. of blades 4 State whether moveable No Total surface 45 sq
No. of Feed pumps 2 Diameter of ditto 2 3/4 Stroke 16 Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 3 1/4 Stroke 16 Can one be overhauled while the other is at work Yes
No. of Donkey Engines 2 Sizes of Pumps 6 x 8 1/2 x 6 Duplex No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Three of 2 1/2 diam. In Holds, &c. Aft hold Two of 2 1/2 Aft well
2 1/2 Main Hold two of 2 1/2 one of 3 1/2

BOILERS, &c.— (Letter for record L) Total Heating Surface of Boiler 2152 sq Is forced draft fitted No
No. and Description of Boilers One Single ended Multitubular Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs
Date of test 6.6.04 Can each boiler be worked separately Yes Area of fire grate in each boiler 51.5 sq No. and Description of safety valves to each boiler Two Spring loaded Area of each valve 5.94 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 21 Mean dia. of boilers 15'-0" Length 10'-6" Material of shell plates Steel
Thickness 1/32 Range of tensile strength 28/32 Are they welded or flanged No Descrip. of riveting: cir. seams D. R. Lap long. seams D. B. J. R.
Diameter of rivet holes in long. seams 1 5/16 Pitch of rivets 7 1/2 Lap of plates or width of butt straps 18 3/8
Per centages of strength of longitudinal joint rivets 83.5 plate 82.5 Working pressure of shell by rules 184 lbs Size of manhole in shell 16 x 12
Size of compensating ring 7 1/2 x 1 3/2 No. and Description of Furnaces in each boiler 3 Plain Material Steel Outside diameter 43
Length of plain part 75 Thickness of plates 49 crown 64 bottom Description of longitudinal joint D. Butt Strap No. of strengthening rings One T bar
Working pressure of furnace by the rules 180 Combustion chamber plates: Material Steel Thickness: Sides 1/16 Back 3/32 Top 1/16 Bottom 49
Pitch of stays to ditto: Sides 10 x 9 Back 9 1/2 x 8 Top 9 1/2 x 8 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180
Material of stays S Diameter at smallest part 1 1/32 Area supported by each stay 10 x 9 Working pressure by rules 198 End plates in steam space:
Material S Thickness 15/16 + 5/8 D Pitch of stays 19 1/2 x 19 1/2 How are stays secured S. N. W. Working pressure by rules 192 Material of stays S
Diameter at smallest part 3 3/2 Area supported by each stay 3850 Working pressure by rules 187 Material of Front plates at bottom S
Thickness 1 Material of Lower back plate S Thickness 3/32 Greatest pitch of stays 15 1/4 x 8 Working pressure of plate by rules 208
Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates S Thickness: Front 1 Back 3/8 Mean pitch of stays 14 1/2 x 9 1/2
Pitch across wide water spaces 11 1/2 Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 7 x 2 5/8 Length as per rule 31 Distance apart 9 1/2 Number and pitch of Stays in each 2, 8 1/2
Working pressure by rules 192 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

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