Rept. 4. REPORT ON MACHINERY No. 558/

Port of MIDDLESBROUGH-ON-TERS Received at London Office.
M. 111. 1 4 5 SEF 1908
Reg. Book. (Number of Visite Life)
488 on the S.S. ITM. Master & R. Konnedown Built at Planis By whom built Floris fern shifts ragein When built
Engines made at Middle Moneya By whom made Nichalton Wengarth Tobell when made 1908.
Boilers made at Middle Brange By whom made Michaeltan Weffgerth & To Ith when made 1908.
Registered Horse Power Owners J. C. Knudsen Port belonging to Portoguend
Nom. Horse Power as per Section 28 192 Is Refrigerating Machinery fitted for cargo purposes to Is Electric Light fitted feet.
ENGINES, &c.—Description of Engines Publi expansion. No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 10-33-54 Length of Stroke 36 Revs. per minute 70 Dia. of Screw shaft as fitted 13 screw shaft
Is the screw shaft fitted with a continuous liner the whole length of the stern tube Mile Is the after end of the liner made water tight
in the propeller boss tedancely the liner is in more than one length are the joints burned 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
liners are fitted, is the shaft lapped or protected between the liners - Length of stern bush 4-6
Dia. of Tunnel shaft as pitted. Dia. of Crank shaft journals as fitted Dia. of Crank pin Dia. of Crank webs 16 x Dia. of thrust shaft under
collars 10 7 Dia. of screw 14 - O Pitch of Screw 14 - 9 No. of Blades 4 State whether moceable 10 Total surface 659
No. of Feed pumps 2 Diameter of ditto 3 Stroke 19 Can one be overhauled while the other is at work 14.
No. of Bilge pumps 2 Diameter of ditto 4" Stroke 19" Can one be overhauled while the other is at work Jel.
No. of Donkey Engines 2 Sizes of Pumps 4 5 x 3 x 4. 6 x 6 x 10 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Five 2' dia. In Holds, &c. Fre Peak Page 24 Main Isold 2. 24
affa hold 2, 24" afta well 1, 25"
No. of Bilge Injections / sizes 42 Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Hes 3"
Are all the bilge suction pipes fitted with roses He 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 feet Are they Valves or Cocks Toth.
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 above
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 MALL 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
Dates of examination of completion of fitting of Sea Connections 8/9/08 of Stern Tube 26-8-18 Screw shaft and Propeller 27-8-08
Is the Screw Shaft Tunnel watertight Les Is it fitted with a watertight door fest worked from Main Men level.
OILERS, &c (Letter for record (R.) Manufacturers of Steel The Fifth. Milly feel for III
Total Heating Surface of Boilers 29784 Is Forced Draft fitted Mo No. and Description of Boilers 2 S.E. Mulh.
Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 10/3/08 No. of Certificate 4/06.
Can each boiler be worked separately He Area of fire grate in each boiler 454 No. and Description of Safety Values to
Can each boiler be worked separately fld Area of fire grate in each boiler 454 No. and Description of Safety Values to each boiler I ffring balks Area of each calce 5.9 Pressure to which they are adjusted 180 Are they fitted with easing year
Smallest distance between boilers or uptakes and bunkers or woodwork /- 6 Mean dia. of boilers 13-0 Length //- 0 Material of shell plates
Thickness 132 Range of tensile strength 28/32 Are the shell plates welded or flanged to Descrip. of riveting: cir. seams INL
ong. seams TRIBS. Diameter of rivet holes in long. seams 19 Pitch of rivets 999 11 Imp of plates or width of butt straps 1-6x 450
Per centages of strength of longitudinal joint rivets \$ Working pressure of shell by rules 187 Size of manhole in shell 12x16
Size of Simpensating ring 8 7 x / 32 No. and Description of Furnaces in each boiler I Deighton Material Hell Outside diameter J. 32
Length of plain part top 3/-6 Thickness of plates bottom & Description of longitudinal joint welled No. of strengthening rings
Working pressure of furnace by the rules 203. Combustion chamber plates: Material Hell Thickness: Sides To Back The Top Top Bottom
Pitch of stays to ditto: Sides 9x 9 3 Back 1/2 x 8 Top 1/4 x 1/2 If stays are fitted with nuts or riveted heads Must Working pressure by rules 182.
laterial of stays ISS Diameter at smallest part 2.09 Area supported by each stay 84" Working pressure by rules 186 End plates in steam space:
laterial Hell Thickness 1 F. Pitch of stays 18 x 19 How are stays secured INYW. Working pressure by rules 165 Material of stays Leel
hamster at smallest part 5.93 Area supported by each stay 295 Working pressure by rules 210 Material of Front plates at bottom Fine
hickness / Material of Lower back plate Hell Thickness of Greatest pitch of stays 16 x 7 Working pressure of plate by rules 183
nameter of tubes ## Pitch of tubes # x # Material of tube plates The Thickness: Front / Book 7/3 Mean pitch of stays ##
itch across wide water spaces 144" Working pressures by rules 188 Girders to Chamber tops: Material Hell Depth and
ickness of girder at centre 85 x 2" Length as per rule 295 Distance apart 105 Number and pitch of stays in each 2, 85
orking pressure by rules 114 Superheater or Steam chest; how connected to boiler L Can the superheater be shut off and the boiler worked
varately _ Diameter _ Length _ Thickness of shell plates _ Material _ Description of longitudinal joint _ Diam. of rivel
les _ 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
orking pressure of end plates _ Area of safety values to superheater _ Are they fitted with easing year _ FOUNIORUOI
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