

REPORT ON MACHINERY

No. 6031
14 JUL 1921

Date of writing Report 12th July 1921 When handed in at Local Office 12th July 1921 Port of Falmouth
No. in Survey held at Falmouth Date, First Survey 7th June Last Survey 6th July 1921
Reg. Book. 76753 on the Ss "BARON LOVAT" ex "WOLFSBURG" (Number of Visits 11)

Master Not yet appointed Built at Geestemunde By whom built J.C. Techlenborg A.G. Tons { Gross 6185
Net 3815
Engines made at Geestemunde By whom made J.C. Techlenborg A.G. When built 1915
Boilers made at Geestemunde By whom made J.C. Techlenborg A.G. when made 1915
Registered Horse Power 703 Owners H. Hogarth & Sons when made 1915
Nom. Horse Power as per Section 28 703 Is Refrigerating Machinery fitted for cargo purposes No Port belonging to Arrossan
Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 31 1/2, 50 3/4, 82 3/4 Length of Stroke 55 8/8 Revs. per minute Dia. of Screw shaft as per rule Material of screw shaft See Eng. Rpt
Is the screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight in the propeller boss If 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 If two liners are fitted, is the shaft lapped or protected between the liners Length of stern bush
Dia. of Tunnel shaft as per rule 15.93 Dia. of Crank shaft journals as per rule 16.72 Dia. of Crank pin 16 7/8 Size of Crank webs 6" thick Dia. of thrust shaft under collars 16 5/8 Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
No. of Feed pumps 2 Diameter of ditto 4 3/4 Stroke 28" Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 4 3/4 Stroke 28" Can one be overhauled while the other is at work Yes
No. of Donkey Engines 4 Sizes of Pumps See back of Report No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room 4 - 3 1/2" Tunnel 1-3 1/2" Tunnel Well 1-3 1/2" In Holds, &c. 10 - 3 1/2"
No. of Bilge Injections 1 sizes 10" Connected to condensers, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes - 3 1/2"
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 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 & 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
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
Dates of examination of completion of fitting of Sea Connections of Stern Tube Screw shaft and Propeller
Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top platform in E.R.

BOILERS, &c.—(Letter for record N) Manufacturers of Steel
Total Heating Surface of Boilers 9920 Is Forced Draft fitted Yes No. and Description of Boilers A. S. E.
Working Pressure 199 lbs Tested by hydraulic pressure to 270 Date of Test G. L. Surveys No. of Certificate
Can each boiler be worked separately Yes Area of fire grate in each boiler 56.54 No. and Description of Safety Valves to each boiler 2 Direct Spring Area of each valve 12.56" Pressure to which they are adjusted 204 lbs Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 24" Mean dia. of boilers 14-8" Length 11-1 23/32" Material of shell plates S
Thickness 1 3/8" Range of tensile strength 27.9-33 tons Are the shell plates welded or flanged No. Descrip. of riveting: cir. seams DR & TR
long. seams Treble Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 9 3/8" Lap of plates or width of butt straps 21 1/32"
Per centages of strength of longitudinal joint rivets 87.8 Working pressure of shell by rules 210 Size of manhole in shell 16" longitudinally
Size of compensating ring 4 1/32" x 1 1/32" No. and Description of Furnaces in each boiler 3 Morion Material S Outside diameter 45.3"
Length of plain part top bottom Thickness of plates crown 5/8" Description of longitudinal joint Welded No. of strengthening rings
Working pressure of furnace by the rules 222 Combustion chamber plates: Material S Thickness: Sides 43/64" Back 43/64" Top 43/64" Bottom 29/32"
Pitch of stays to ditto: Sides 7 1/8 x 8 1/16" Back 7 1/8 x 6 1/8" Top 7 1/8 x 7 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 226
Material of stays Iron Diameter at smallest part 1.91 Area supported by each stay 59" Working pressure by rules 290 End plates in steam space: Material S Thickness 1 1/32" Pitch of stays 15 x 14 5/8" How are stays secured DN. Loose Working pressure by rules 265 Material of stays S
Diameter at smallest part 3 Area supported by each stay 219" Working pressure by rules 336" Material of Front plates at bottom S
Thickness 1 5/16" Material of Lower back plate S Thickness 15/16" Greatest pitch of stays 13 3/16" Working pressure of plate by rules 280
Diameter of tubes 3 Pitch of tubes 4 1/8" x 4 1/8" Material of tube plates S Thickness: Front 1 1/16" Back 15/16" Mean pitch of stays 8 1/4"
Pitch across wide water spaces 14" Working pressures by rules 222 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 1/2" x 22 x 93/64" Length as per rule 33 Distance apart 7 1/2" Number and pitch of stays in each 3 x 7 1/8"
Working pressure by rules 223 Superheater or Steam chest; how connected to boiler Schmidt type Can the superheater be shut off and the boiler worked separately
Diameter 15" Length 15" Thickness of shell plates 15/16" Material S Description of longitudinal joint DR Diam. of rivets 1 1/2" Pitch of rivets 1 1/2" Working pressure of shell by rules 222 Diameter of flue 15" Material of flue plates S Thickness 15/16"
Stays stiffened with rings Yes Distance between rings 15" Working pressure by rules 222 End plates: Thickness 15/16" How stayed Yes
Working pressure of end plates 222 Area of safety valves to superheater 1.91 Are they fitted with easing gear Yes

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