

REPORT ON MACHINERY

No. 55017

SAI. 4 JUL 1908

Port of Newcastle on Tyne

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No. in Survey held at Newcastle

Date, first Survey Oct 9

Last Survey 29 June 1908

Reg. Book.

63 on the Steel S. S. "INDIANIC"

(Number of Vessels 51)

Master H. Schmid Built at Newcastle By whom built Hawthorn Leslie & Co. Ltd. Tons Gross 4269 Net 2401 When built 1908

Engines made at Newcastle By whom made Hawthorn Leslie & Co. Ltd. when made 1908

Boilers made at D. By whom made D. when made 1908.

Registered Horse Power Owners Rederiaktiet Transatlantiska Port belonging to Gothenburg

Nom. Horse Power as per Section 28 492 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 27½ - 46 - 76 Length of Stroke 48 Revs. per minute 70 Dia. of Screw shaft as per rule 15½ Material of Inpt. Steel
 as fitted 15½ Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes 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 Yes 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 Yes If two
 liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 60
 Dia. of Tunnel shaft as per rule 13½ Dia. of Crank shaft journals as per rule 14½ Dia. of Crank pin 14½ Size of Crank webs 9½ Dia. of thrust shaft under
 as fitted 13½ collars 14½ Dia. of screw 18-3 Pitch of Screw 18-3 No. of Blades 4 State whether moveable Yes Total surface 100 ft
 No. of Feed pumps Duplex Diameter of ditto 8 Stroke 18 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4½ Stroke 26 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines Two Sizes of Pumps F. 7x5x8 B. 9x10x10 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Four 3½ In Holds, &c. In all holds Two 3½
 Tunnel Well One 3
 No. of Bilge Injections 1 sizes 8 Connected to condenser, or to circulating pump CP Is a separate Donkey Suction fitted in Engine room & size Yes 3½
 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 Yes
 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 & 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 Yes
 What pipes are carried through the bunkers Inlet bilge Suctions How are they protected Strong Wood Casings
 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 29-4-08 of Stern Tube 29-4-08 Screw shaft and Propeller 17-6-08
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from top platform.

BOILERS, &c.—(Letter for record S) Manufacturers of Steel J. Spencer & Son

Total Heating Surface of Boilers 6690 ft Is Forced Draft fitted Yes No. and Description of Boilers Two, Cyl. Mult. S. Ind.
 Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 8-2-08 No. of Certificate 7683
 Can each boiler be worked separately Yes Area of fire grate in each boiler 77 ft No. and Description of Safety Valves to
 each boiler Two Spring Area of each valve 11-8 Pressure to which they are adjusted 185 Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 21 outside Mean dia. of boilers 16-9 Length 12-0 Material of shell plates S
 Thickness 21-5 Range of tensile strength 28-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams d lap
 16 long. seams d shop Diameter of rivet holes in long. seams 17/16 Pitch of rivets 9/16 Lap of plates or width of butt straps 22
 Per centages of strength of longitudinal joint rivets 93 Working pressure of shell by rules 183 Size of manhole in shell 16x12
 plate 85
 Size of compensating ring Flange No. and Description of Furnaces in each boiler 4 Brighton Material S Outside diameter 46½
 Length of plain part top Thickness of plates crown 9/16 Description of longitudinal joint Weld No. of strengthening rings Yes
 bottom Working pressure of furnace by the rules 191 Combustion chamber plates: Material S Thickness: Sides 1/16 Back 1/16 Top 1/16 Bottom 1/16
 Pitch of stays to ditto: Sides 10x8½ Back 9½x9½ Top 10x8½ If stays are fitted with nuts or riveted heads Yes Working pressure by rules 181
 Material of stays S Diameter at smallest part 1-889 Area supported by each stay 90-25 Working pressure by rules 187 End plates in steam space:
 Material S Thickness 18-5 Pitch of stays 20x16 How are stays secured d n + w Working pressure by rules 182 Material of stays S
 Diameter at smallest part 6-1 Area supported by each stay 320 Working pressure by rules 190 Material of Front plates at bottom S
 Thickness 1 Material of Lower back plate S Thickness 3/32 Greatest pitch of stays as per plan Working pressure of plate by rules 180
 Diameter of tubes 2½ Pitch of tubes 35/8 + 33/4 Material of tube plates S Thickness: Front 7/8 Back 12-5 Mean pitch of stays 11
 Pitch across wide water spaces 125/8 Working pressures by rules 184 Girders to Chamber tops: Material S Depth and
 thickness of girder at centre 9x13/8 Length as per rule 30-6 Distance apart 8½ Number and pitch of stays in each Two 10
 Working pressure by rules 205 Superheater or Steam chest; how connected to boiler 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

