

REPORT ON MACHINERY.

No. 3536.

Received at London Office MON. FEB. 19, 1912

Date of writing Report 16th February 1912 When handed in at Local Office 19 Port of Copenhagen.
 No. in Survey held at Copenhagen Date, First Survey 20th April 1911 Last Survey 14th February 1912.
 Reg. Book. 85. on the Twin Screw Diesel Engine 3 mst. Schooner "Icelandia" (Number of Visits 76.)
 Master Gabe Built at Copenhagen By whom built A/S. Burmeister & Wain Tons { Gross 4964.42
 Engines made at Copenhagen By whom made A/S. Burmeister & Wain when made 1912. Net 3172.92.
 Boilers made at Gateshead By whom made Clarke Chapman & Co. when made 1911.
 Registered Horse Power 500 Owners Aktieselskabet Det Ostasiatiske Kompagni Port belonging to Copenhagen.
 Nom. Horse Power 500 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines 2 off. 8 cylinder four stroke cycle Diesel Engines. No. of Cylinders 16 No. of Cranks 16.
 Dia. of Cylinders 20 7/8" Length of Stroke 28 3/4" Revs. per minute 140 Dia. of Screw shaft 11 1/8" Material of screw shaft S. A. Steel
 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 4'-10"
 Dia. of Tunnel shaft 10 3/8" Dia. of Crank shaft journals 12 7/32" Dia. of Crank pin 12 13/32" Size of Crank webs 17 23/32" x 5 21/32" Dia. of thrust shaft under
 collars 11" Dia. of screw 11'-6" Pitch of Screw 9'-3" No. of Blades 4 State whether moveable No Total surface 42 sq
 No. of Feed pumps 2 Diameter of ditto 10" Stroke 10" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 10" Stroke 10" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 7 off Sizes of Pumps (See following sheet) No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2 off 3 1/2" In Holds, &c. 2 off 3 1/2" in No. 1, 2 & 3 holds. 2 off
2 1/2" & 1 off 3 1/2" in No. 4 hold. 1 off 3 1/2" in tunnel well.
 No. of Bilge Injections 2 sizes 2" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 2 off 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 & one blow off Cock for donkey boiler.
 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
 What pipes are carried through the bunkers None How are they protected None
 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 3/11 - 11 of Stern Tubes 16/9 - 11. Screw shaft and Propeller 16/10 - 11.
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper deck.

OILERS, &c.—(Letter for record None) Manufacturers of Steel None

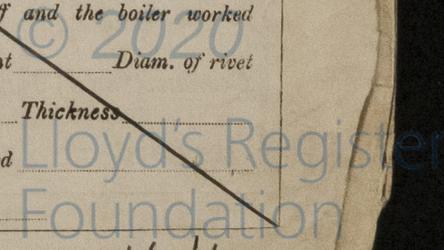
Total Heating Surface of Boilers None Is Forced Draft fitted None No. and Description of Boilers None

Working Pressure None Tested by hydraulic pressure to None Date of test None No. of Certificate None

Can each boiler be worked separately None Area of fire grate in each boiler None No. and Description of Safety Valves to
 each boiler None Area of each valve None Pressure to which they are adjusted None Are they fitted with easing gear None

Smallest distance between boilers or uptakes and bunkers or woodwork None Mean dia. of boilers None Length None Material of shell plates
 Thickness None Range of tensile strength None Are the shell plates welded or flanged None Descrip. of riveting: cir. seams
 long. seams None Diameter of rivet holes in long. seams None Pitch of rivets None Lap of plates or width of butt straps None
 Per centages of strength of longitudinal joint None Working pressure of shell by rules None Size of manhole in shell None
 Size of compensating ring None No. and Description of Furnaces in each boiler None Material None Outside diameter None
 Length of plain part None Thickness of plates None Description of longitudinal joint None No. of strengthening rings None
 Working pressure of furnace by the rules None Combustion chamber plates: Material None Thickness: Sides None Back None Top None Bottom None
 Pitch of stays to ditto: Sides None Back None Top None If stays are fitted with nuts or riveted heads None Working pressure by rules None
 Material of stays None Diameter at smallest part None Area supported by each stay None Working pressure by rules None End plates in steam space: None
 Material None Thickness None Pitch of stays None How are stays secured None Working pressure by rules None Material of stays None
 Diameter at smallest part None Area supported by each stay None Working pressure by rules None Material of Front plates at bottom None
 Thickness None Material of Lower back plate None Thickness None Greatest pitch of stays None Working pressure of plate by rules None
 Diameter of tubes None Pitch of tubes None Material of tube plates None Thickness: Front None Back None Mean pitch of stays None
 Pitch across wide water spaces None Working pressures by rules None Girders to Chamber tops: Material None Depth and
 thickness of girder at centre None Length as per rule None Distance apart None Number and pitch of stays in each None
 Working pressure by rules None Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked
 separately None Diameter None Length None Thickness of shell plates None Material None Description of longitudinal joint None Diam. of rivet
 plates None Pitch of rivets None Working pressure of shell by rules None Diameter of flue None Material of flue plates None Thickness None
 Stiffened with rings None Distance between rings None Working pressure by rules None End plates: Thickness None How stayed None
 Working pressure of end plates None Area of safety valves to superheater None Are they fitted with easing gear None

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4. N^o 3536.

VERTICAL DONKEY BOILER— *Manufacturers of Steel fitted for burning liquid fuel.*

No. *One* Description *Cross-tube. See Newcastle Report No. 60396.*
Made at *✓* By whom made *✓* When made *✓* Where fixed *In motor space*
Working pressure *80 lbs* tested by hydraulic pressure to *✓* Date of test *✓* No. of Certificate *8144* Fire grate area *✓* Description of *✓*
Valves *Spring loaded* No. of Safety Valves *2* Area of each *3 3/8"* Pressure to which they are adjusted *80 lbs.* Date of adjustment *7/2-11*
If fitted with casing gear *yes* If steam from main boilers can enter the donkey boiler *✓* Dia. of donkey boiler *5'-0"* Length *11'-0"*
Material of shell plates *✓* Thickness *✓* Range of tensile strength *✓* Descrip. of riveting long. seams *✓*
Dia. of rivet holes *✓* Whether punched or drilled *✓* Pitch of rivets *✓* Lap of plating *✓* Per centage of strength of joint *✓* Rivets *✓*
Working pressure of shell by rules *✓* Thickness of shell crown plates *✓* Radius of do. *✓* No. of stays to do. *✓* Dia. of stays *✓*
Diameter of furnace Top *✓* Bottom *✓* Length of furnace *✓* Thickness of furnace plates *✓* Description of joint *✓*
Working pressure of furnace by rules *✓* Thickness of furnace crown plates *✓* Radius of do. *✓* Stayed by *✓*
Diameter of uptake *✓* Thickness of uptake plates *✓* Thickness of water tubes *✓* Dates of survey *✓*

SPARE GEAR. State the articles supplied:— *One duplex feed pump for donkey boiler Steam cyl. 3 1/2" Water cyl. 2 1/2" Stroke*
See following sheet.

The foregoing is a correct description, **AKTIESELSKABET BURMEISTER & WAINSKIN- OG SKIBSBYGGERI.**

Manufacturers *✓*

Dates of Survey while building
During progress of work in shops - *24/4, 22/4, 2/5, 3/5, 1/6, 3/6, 1/6, 13/6, 15/6, 19/6, 21/6, 23/6, 25/6, 27/6, 29/6, 1/7, 3/7, 14/7, 24/7, 28/7, 29/7, 31/7, 1/8, 3/8, 15/8, 17/8, 19/8, 21/8, 23/8, 25/8, 27/8, 29/8, 31/8, 1/9, 3/9, 12/9, 14/9, 16/9, 18/9, 20/9, 22/9, 24/9, 26/9, 28/9, 30/9, 1/10, 3/10, 12/10, 14/10, 16/10, 18/10, 20/10, 22/10, 24/10, 26/10, 28/10, 30/10, 1/11, 3/11, 12/11, 14/11, 16/11, 18/11, 20/11, 22/11, 24/11, 26/11, 28/11, 30/11, 1/12, 3/12, 12/12, 14/12, 16/12, 18/12, 20/12, 22/12, 24/12, 26/12, 28/12, 30/12, 1/13, 3/13, 12/13, 14/13, 16/13, 18/13, 20/13, 22/13, 24/13, 26/13, 28/13, 30/13, 1/14, 3/14, 12/14, 14/14, 16/14, 18/14, 20/14, 22/14, 24/14, 26/14, 28/14, 30/14, 1/15, 3/15, 12/15, 14/15, 16/15, 18/15, 20/15, 22/15, 24/15, 26/15, 28/15, 30/15, 1/16, 3/16, 12/16, 14/16, 16/16, 18/16, 20/16, 22/16, 24/16, 26/16, 28/16, 30/16, 1/17, 3/17, 12/17, 14/17, 16/17, 18/17, 20/17, 22/17, 24/17, 26/17, 28/17, 30/17, 1/18, 3/18, 12/18, 14/18, 16/18, 18/18, 20/18, 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