

REPORT ON MACHINERY.

No. 3536.

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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. Inst. 85. on the Twin Screw Diesel Engine 3 mst. Schooner "Selandia" (Number of Visits 76)

Master Gabe Built at Copenhagen By whom built A/S. Burmeister & Wain Tons { Gross 4964.42
Net 3172.92

Engines made at Copenhagen By whom made A/S. Burmeister & Wain when made 1912.

Boilers made at Gateshead By whom made Clarke Chapman & Co. when made 1911.

Registered Horse Power 500 Owners Aktieselskabet Det Østasiatiske Handels Selskab Port belonging to Copenhagen.

Nom. Horse Power as per Section 28 500 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 as per rule 11 1/8" Material of S. A. Steel
as fitted 11 1/8" screw shaft)

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 as per rule 10 3/8" Dia. of Crank shaft journals as per rule 12 7/32" Dia. of Crank pin 12 13/32" Size of Crank webs 17 23/32" x 5 2 1/2"
as fitted 10 3/8" as fitted 12 7/32" 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 ✓ Diameter of ditto ✓ Stroke ✓ Can one be overhauled while the other is at work ✓

No. of Bilge pumps ✓ Diameter of ditto ✓ Stroke ✓ Can one be overhauled while the other is at work ✓

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 ✓ sizes ✓ Connected to condenser, or to circulating pump ✓ 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 ✓ 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 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) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers

Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate

Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
plate

Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom bottom

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

Working pressure by rules 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
plates Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

Is 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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