

## REPORT ON MACHINERY.

No. 3840.

MON. APR. 14 1913

Date of writing Report 10<sup>th</sup> April 1913 When handed in at Local Office

Port of Copenhagen

No. in Survey held at Copenhagen Date, First Survey 21<sup>st</sup> August 1912 Last Survey 9<sup>th</sup> April 1913.

Reg. Book. Splud. 136 on the Skel Twin Gr. 4 Mst. Sr. "Siam" (Yard No. 287) Oil Engines. (Number of Visits 72.)

Master C. Jensen Built at Copenhagen By whom built Akt. Burmeister &amp; Wain When built 1913.

Engines made at Copenhagen By whom made Akt. Burmeister &amp; Wain when made 1913.

Boilers made at Gateshead By whom made Clarke Chapman &amp; Co when made 1912.

Registered Horse Power 3000 I.H.P. Owners Akt. Det Jøstaniatiske Kompagni Port belonging to Copenhagen.

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

ENGINES, &amp;c.—Description of Engines 2 off Four stroke cycle single acting Diesel Engines No. of Cylinders 16. No. of Cranks 16.

Dia. of Cylinders 23 1/4" (590 mm) Length of Stroke 3 1/2" (90 mm) Revs. per minute 130 Dia. of Screw shaft 12 1/2" (318 mm) Material of S. M. I. 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 in one length 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 5'-6" 1530 mm x 174 mm

Dia. of Tunnel shaft 11 5/8" (297 mm) Dia. of Crank shaft journals 14" (356 mm) 13.58 Dia. of Crank pin 14" (356 mm) Size of Crank webs 20 3/4" x 6 1/2" Dia. of thrust shaft under

collars 12 1/4" Dia. of screw 12'-0" Pitch of Screw 9'-6" No. of Blades 4 State whether moveable or Total surface 45 square feet.

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 5 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" and 2 off 3" each In Holds, &amp;c. In fore holds (No. 1, 2 &amp; 3) and in after hold (No. 4)

2 off in each 3 1/2" each. In after hold (No. 5) 3 off 3 1/2" each. In tunnel well 1 off 3 1/2" From the D/B tanks and Peak tanks as per approved plan.

No. of Bilge Injections 2 off sizes 4 1/2" Connected to condenser, or to circulating pumps Is a separate Donkey Suction fitted in Engine room &amp; size one off 6 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 and 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 23/1. 1913 of Stern Tubes 23/1. 1913 Screw shaft and Propellers 27/3. 1913.

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from upper deck.

BOILERS, &amp;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

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

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

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

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