Rpt. 5a.

REPORT ON BOILERS.

No. 7286.

Received at London Office 2 JUL 1926

Date of writing Report 29th June 1926 When handed in at Local Office 191 Port of Copenhagen

No. in Reg. Book. 40393. Survey held at Copenhagen Date, First Survey 5th January Last Survey 18th June 1926 Number of Visits 29. Tons Gross 465,53 Net 152,83.

Master — Built at Copenhagen By whom built Akts. Kjöbenhavns Flydedok & Skibsværft When built 1926-6.

Engines made at Copenhagen By whom made Akts. Kjöbenhavns Flydedok og Skibsværft. When made 1926-6.

Boilers made at Copenhagen By whom made Akts. Kjöbenhavns Flydedok og Skibsværft. When made 1926-6.

Registered Horse Power — Owners The Iceland Government. Port belonging to —

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.

Manufacturers of Steel: Plates: Henschel & Sohn, Hattingen. Furnaces: J. Thomson, Wolverhampton. Rivets: Henze Bros. Copenhagen.

(Letter for record S) **Total Heating Surface of Boilers** 2×1480 ☐ft = 2960 ☐ft Is forced draft fitted No. **No. and Description of Boilers** 2 off single ended, return tubular (2 SB) **Working Pressure** 14 (300 lbs) kg/cm² Tested by hydraulic pressure to 28 (400 lbs) kg/cm² Date of test 19/4-20/4-26

No. of Certificate 457-458. Can each boiler be worked separately yes. **Area of fire grate in each boiler** 46,3 ☐ft No. and Description of safety valves to each boiler 2 off - direct springloaded Area of ~~each~~ valves 2×4,30" Pressure to which they are adjusted 14 (200 lbs) kg/cm²

Are they fitted with easing gear yes. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Donkey boiler not fitted

Smallest distance between ~~boilers or~~ uptakes and bunkers ~~or woodwork~~ 7' Mean dia. of boilers 3658 m/m × 12' Length 3390 m/m × 11'-1½"

Material of shell plates S.M. Steel Thickness 28,5 m/m Range of tensile strength 28,2-39,9 Tons/□" Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Lap joint double riveted long. seams Double butt straps Diameter of rivet holes in long. seams 29,5 m/m Pitch of rivets 212 m/m.

~~Lap of plates or~~ width of butt straps 452 m/m. Per centages of strength of longitudinal joint rivets 86,0 plate 86,1. Working pressure of shell by rules 14,62 kg/cm² Size of manhole in shell 395 × 495 m/m Size of compensating ring 705 × 805 m/m. **No. and Description of Furnaces in each boiler** 2 off. Deighton's Type Material S.M. Steel Outside diameter 1226 m/m. Length of plain part top ✓ bottom ✓ Thickness of plates ~~crown~~ ~~bottom~~ 16 m/m.

Description of longitudinal joint ✓ No. of strengthening rings ✓ Working pressure of furnace by the rules 14,28 kg/cm² Combustion chamber plates: Material S.M. Steel Thickness: Sides 18,5 m/m Back 18 m/m. Top 17 m/m. Bottom 18,5 m/m. Pitch of stays to ditto: Sides 210×254 m/m to 260×212 Back 220×249 m/m Top 230×216 m/m If stays are fitted with nuts or riveted heads Nuts in combustion chambers and outer row of back connecting outside - remaining riveted heads Working pressure by rules 14,47 kg/cm² Material of stays S.M. Steel Area at smallest part 2,10" Area supported by each stay 54780 m/m² Working pressure by rules 15 kg/cm² End plates in steam space: Material S.M. Steel Thickness 25 m/m. Pitch of stays 450×375 m/m How are stays secured Screwed in plates, washers and nuts outside Working pressure by rules 14,9 kg/cm² Material of stays S.M. Steel Area at smallest part 5,450" Area supported by each stay 168750 m/m² Working pressure by rules 15,6 kg/cm² Material of Front plates at bottom S.M. Steel Thickness 24 m/m Material of Lower back plate S.M. Steel Thickness 22 m/m. Greatest pitch of stays 396 m/m. Working pressure of plate by rules 17,3 kg/cm² Diameter of tubes 3½" Pitch of tubes 117×114 m/m. Material of tube plates S.M. Steel Thickness: Front 24 m/m. Back 22 m/m. Mean pitch of stays 234×342 m/m Pitch across wide water spaces 368 m/m. Working pressures by rules 14,7 kg/cm² Girders to Chamber tops: Material S.M. Steel Depth and thickness of girder at centre 183 m/m. 2×19 m/m. Length as per rule 670 m/m. Distance apart 230 m/m. Number and pitch of Stays in each 2 off - 210 m/m. Working pressure by rules 14,9 kg/cm² Steam dome: description of joint to shell Lap joint - double riveted % of strength of joint 83,2.

Diameter 458 m/m. Thickness of shell plates 19 m/m. Material S.M. Steel Description of longitudinal joint hammer welded Diam. of rivet holes ✓

Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates S.M. Steel Thickness 19 m/m. How stayed ✓

SUPERHEATER.

Type Schmidt's Date of Approval of Plan ✓ Tested by Hydraulic Pressure to 42 kg/cm²

Date of Test 26th April 1926 ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes. ✓

Diameter of Safety Valve 3/4" ✓ Pressure to which each is adjusted 14 kg/cm² ✓ Is Easing Gear fitted yes. ✓

The foregoing is a correct description,

AKTIESELSKABET KJØBENHAVNS FLYDEDOK OG SKIBSVÆRFT Manufacturers.

A. Uggerlöse.

Dates of Survey while building: During progress of work in shops - - - 1926 - 5/1 - 5/2 - 14/2 - 25/2 - 26/2 - 1/3 - 9/3 - 15/3 - 18/3 - 25/3 - 7/4 - 9/4 - 13/4 - 14/4 - 16/4 - 19/4 - 20/4 - 21/4 - 26/4

During erection on board vessel - - - 28/4 - 3/5 - 7/5 - 19/5 - 28/5 - 7/6 - 10/6 - 11/6 - 12/6 - 18/6

Is the approved plan of boiler forwarded herewith yes. ✓

Total No. of visits 29.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The boilers have been built under special survey and in accordance with the Rules, the approved plans and the requirements contained in the Secretary's letter E dated 4/12 1925, 16/12-1925, 10/4-1926. The material used has been tested and examined as required by the Rules and the workmanship is good.

Survey Fee Charged on the Machinery Rept. When applied for. ✓ 191

Travelling Expenses (if any) £ : : When received, 191

L. Clausen

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 6 JUL 1926

Assigned See S.E. rpt. attached

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