

## REPORT ON BOILERS.

No. 13621

Received at London Office 10 NOV 1951

Date of writing Report 12<sup>th</sup> October 1951 When handed in at Local Office 1951 Port of Copenhagen

No. in Reg. Book 40085 Survey held at Elsinore Date, First Survey 26<sup>th</sup> February Last Survey 21<sup>st</sup> September 1951

on the SHALP. TH. ADLER SVANHOLM (Number of Visits 30) Tons Gross 3040.57 Net 1598.02

Built at Elsinore By whom built Th. Hellingøi Skibsværft & Maskinbyggeri Yard No. 304 When built 1951

Engines made at Elsinore By whom made Th. Hellingøi Skibsværft & Maskinbyggeri Engine No. 446 When made 1951

Boilers made at Elsinore By whom made Th. Hellingøi Skibsværft & Maskinbyggeri Boiler No. 1122 When made 1951

Nominal Horse Power 366 Owners Th. Hellingøi Skibsværft & Maskinbyggeri Port belonging to Copenhagen

## MULTITUBULAR BOILERS, MAIN, AUXILIARY, OR DONKEY.

PLATES: Chillies Ltd, Motherwell Glasgow FURNACES: Deighton's Patent Steel & Tube Co Ltd

SEDS TUBES: Newark & Lloyd's Lancing Furnace STAYS & SCREWSTAYS: Th. Hellingøi Skibsværft & Maskinbyggeri

Manufacturers of Steel Skarsholm, Redensholk, RIVETS: Høye Bm, Copenhagen (Letter for Record 5)

Total Heating Surface of Boilers 3914 sq feet 363.6  $\frac{1}{2}$  Of Superheaters 2260 sq feet - 210  $\frac{1}{2}$

Total for Register Book 6174 sq feet Is forced draught fitted yes Coal or Oil fired coal fired

No. and Description of Boilers Two 4 single ended return multitubular Working Pressure 220 lbs/sq in

Tested by hydraulic pressure to 380 lbs/sq in Date of test 17.7.1951 No. of Certificate 771 Can each boiler be worked separately yes

Area of Firegrate in each Boiler 9.25  $\frac{1}{2}$  No. and Description of safety valves to each boiler 2 4 directly spring loaded

Area of each set of valves per boiler { per Rule 83 cm<sup>2</sup> as fitted 95.5 cm<sup>2</sup> Pressure to which they are adjusted 220 lbs/sq in Are they fitted with easing gear yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler yes

Smallest distance between boilers or uptakes and bunkers 810  $\frac{1}{2}$  Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating 480  $\frac{1}{2}$  Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 4190  $\frac{1}{2}$  Length 3430  $\frac{1}{2}$  Shell plates: Material Siemens M. Steel Tensile strength 28.7-30.2  $\frac{1}{2}$

If fusion welded, state name of welding Firm yes Have all the requirements of the Rules for Class I vessels yes

Have been complied with yes Thickness 35  $\frac{1}{2}$  Are the shell plates welded or flanged No Description of riveting: circ. seams lap double riveting

Long. seams double butt shop Diameter of rivet holes in { circ. seams 35  $\frac{1}{2}$  long. seams 35  $\frac{1}{2}$  Pitch of rivets 103  $\frac{1}{2}$

Percentage of strength of circ. end seams { plate 66.3 rivets 49.5 Percentage of strength of circ. intermediate seam { plate yes rivets yes

Percentage of strength of longitudinal joint { plate 84.6 rivets 93.4 combined 87.8

Thickness of butt straps { outer 30  $\frac{1}{2}$  inner 30  $\frac{1}{2}$  No. and Description of Furnaces in each Boiler 3 4 corrugated, Deighton's section

Material Siemens M. Steel Tensile strength 27.9-28.3  $\frac{1}{2}$  Smallest outside diameter 1050  $\frac{1}{2}$

Length of plain part { top yes bottom yes Thickness of plates 17  $\frac{1}{2}$  Description of longitudinal joint yes

Dimensions of stiffening rings on furnace or c.c. bottom yes

End plates in steam space: Material Siemens M. Steel Tensile strength 28.8-29.5  $\frac{1}{2}$  Thickness 32  $\frac{1}{2}$  Pitch of stays 394  $\frac{1}{2}$  x 495  $\frac{1}{2}$

How are stays secured Screwed in plates nuts inside, nuts and washers outside

Tube plates: Material { front Siemens M. Steel back Siemens M. Steel Tensile strength { 28.6  $\frac{1}{2}$  28.7-29.0  $\frac{1}{2}$  Thickness { 27  $\frac{1}{2}$  24  $\frac{1}{2}$

Mean pitch of stay tubes in nests CENT 324  $\frac{1}{2}$  x 324  $\frac{1}{2}$  Pitch across wide water spaces a: 395  $\frac{1}{2}$  6108  $\frac{1}{2}$

Orders to combustion chamber tops: Material Siemens M. Steel Tensile strength 31.5  $\frac{1}{2}$  Depth and thickness of girder

centre 290  $\frac{1}{2}$  - 20  $\frac{1}{2}$  Length as per Rule 646  $\frac{1}{2}$  Distance apart 249  $\frac{1}{2}$  No. and pitch of stays

each welded to top plate Combustion chamber plates: Material Siemens Martin Steel

Tensile strength 27.9-29.6  $\frac{1}{2}$  Thickness: Sides 19  $\frac{1}{2}$  Back 17.5  $\frac{1}{2}$  Top 19  $\frac{1}{2}$  Bottom 19  $\frac{1}{2}$

Pitch of stays to ditto: Sides CENT 197  $\frac{1}{2}$  x 230  $\frac{1}{2}$  Back CENT 197  $\frac{1}{2}$  x 175  $\frac{1}{2}$  Top yes Are stays fitted with nuts or riveted over as per plan

Front plate at bottom: Material Siemens Martin Steel Tensile strength 28.6  $\frac{1}{2}$

Thickness 27  $\frac{1}{2}$  Lower back plate: Material Siemens M. Steel Tensile strength 29.8  $\frac{1}{2}$  Thickness 24  $\frac{1}{2}$

Pitch of stays at wide water space 130  $\frac{1}{2}$  Are stays fitted with nuts or riveted over Nuts in - & outside

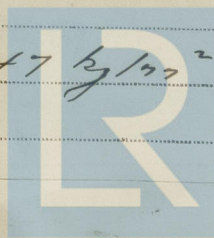
Main stays: Material Siemens Martin Steel Tensile strength 44-55  $\frac{1}{2}$

meter { At body of stay yes or yes No. of threads per inch 6

Over threads yes New stays: Material Siemens Martin Steel Tensile strength 41-47  $\frac{1}{2}$

meter { At turned off part yes or yes No. of threads per inch 9

Over threads yes



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