

## REPORT ON BOILERS.

No. 492  
FRI. MAY. 20 1921

Received at London Office

Date of writing Report 12th April 1921 When handed in at Local Office 19 Port of Bremen - Copenhagen  
 No. in Survey held at Stettin Ridby Ham Date, First Survey 19th July 1920 Last Survey 6th April 1921  
 Reg. Book. 88/15 on the Boilers Nos 1892 and 1893 ('S FRANKRIQ') (Number of Visits 10) Gross 1361.17  
 Tons Net 778.20  
 Master Built at Ridby Ham By whom built 1/2 Ridby Ham Dock of Skibsværft When built 1924  
 Engines made at Kronholm Aarhus By whom made Stettin Kaufmann 1/2 Fichs When made 1924  
 Boilers made at Stettin By whom made Stettiner Oderwerke A.G. When made 1920-21  
 Registered Horse Power 650 Owners 1/2 Dansk Engelsk Dampskibsselskab Port belonging to Copenhagen

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Mannemann Röhrwerke AG. Schulz Maschinenbauingen.

(Letter for record 5) Total Heating Surface of Boilers 208.56 sq meters Is forced draft fitted No No. and Description of Boilers 2 cylindrical multitubular Working Pressure 13 kilog Tested by hydraulic pressure to 26 kilog Date of test 16.12.20  
 No. of Certificate 92, 98 Can each boiler be worked separately Yes Area of fire grate in each boiler 3.1 sq meters No. and Description of safety valves to each boiler 2 off, direct spring loaded Area of each valve 5.94 sq" Pressure to which they are adjusted 185 lbs per sq"  
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Not donkey boiler  
 Smallest distance between boilers on uptakes and bunkers or woodwork 16" Mean dia. of boilers 3125 mm Length 3140 mm  
 Material of shell plates S.M. steel Thickness 23 mm Range of tensile strength 44-50 kilog Are the shell plates welded or flanged double butt shape  
 Descrip. of riveting: cir. seams double long. seams treble Diameter of rivet holes in long. seams 29 mm Pitch of rivets 176 mm  
 Lap of plates or width of butt straps 410 mm Per centages of strength of longitudinal joint 83.6 Working pressure of shell by rules 13.1 kilog Size of manhole in shell 300 x 400 mm Size of compensating ring 600 x 200 mm No. and Description of Furnaces in each boiler 2, monoton Material steel Outside diameter 1000 mm Length of plain part top bottom Thickness of plates crown bottom 14 mm  
 Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 13.5 kg Combustion chamber plates: Material steel Thickness: Sides 16 mm Back 16 mm Top 16 mm Bottom 12 mm Pitch of stays to ditto: Sides 190 x 195 Back 185 x 185 mm  
 Top 195 x 125 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 16.3 kg Material of stays steel Area at smallest part 1620 Area supported by each stay 32050 Working pressure by rules 4.4 End plates in steam space: Material steel Thickness 23 mm  
 Pitch of stays 350 x 360 How are stays secured with washers Working pressure by rules 15 kg Material of stays steel Area at smallest part 3068  
 Area supported by each stay 126000 Working pressure by rules 12.8 kg Material of Front plates at bottom steel Thickness 23 mm Material of Lower back plate steel Thickness 23 mm Greatest pitch of stays 380 x 185 mm Working pressure of plate by rules 15 kg Diameter of tubes 83 mm  
 Pitch of tubes 108 x 102 mm Material of tube plates steel Thickness: Front 23 mm Back 20 mm Mean pitch of stays 215 mm Pitch across wide water spaces 360 mm Working pressures by rules 19.8 kilogramms Girders to Chamber tops: Material steel Depth and thickness of girder at centre 175 x 2 x 16 mm Length as per rule 599 mm Distance apart 185 mm Number and pitch of Stays in each 2-195 mm  
 Working pressure by rules 14.3 kg Steam dome: description of joint to shell ✓ % of strength of joint ✓  
 Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓  
 Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓

UPERHEATER. Type Schmidt's Date of Approval of Plan ✓ Tested by Hydraulic Pressure to 50 kg/cm<sup>2</sup>  
 Date of Test 31-5-1920 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes  
 Diameter of Safety Valve 32 mm Pressure to which each is adjusted 185 lbs. per sq" Is Easing Gear fitted Yes

The foregoing is a correct description,  
Stettiner Oderwerke  
Aktiengesellschaft  
für Schiff- und Maschinenbau. Manufacturer.

Dates of Survey 1920: July 19, Aug 16, Sep 20, Oct 15, Nov 10 Is the approved plan of boiler forwarded herewith Yes  
 while building Dec 6, 16 1921: March 8, 31 April 6 Total No. of visits 10 + 7 = 17  
 During erection on board vessel 2/9, 22/9, 3/10, 21/10, 18/11, 19/11, 20/11, 24

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

These boilers have been manufactured under Special Survey, the materials used in the construction have been made at works approved off by the Committee and tested by the Society's Surveyors as per continuation

Survey Fee ... £15 0 0: When applied for, 23rd July 1921  
 Travelling Expenses (if any) £ 7 10 0: When received, 19

Committee's Minute

TUES. 6 JAN 1925

TUES. 13 OCT 1925

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
Foundation

W397-0015



Boilers Nos. 1892 and 1893*required by the Rules (2 certificates of test attached).**The workmanship is satisfactory.**It is recommended that these boilers be eligible to be approved for the intended working pressure of 13 kilograms per square centimetre, subject to the mountings as required by the Rules being fitted, the boilers being tested under steam and their safety valves being adjusted.***RETAIN**  
*J. H. C. Kohn***RETAIN**