

REPORT ON BOILERS.

No. 6892

Received at London Office 27 AUG 1927

Writing Report 23rd Aug 1927 When handed in at Local Office 23rd Aug 1927 Port of Göteborg
 in Survey held at Göteborg Date, First Survey 11th April Last Survey 16th April 1927
 Book. on the Steel S. "ETNA" (Number of Visits 6) Gross 2619 Tons Net 1536
 Built at Fredrikstad By whom built Fredrikstads Mek. Verks When built 1918
 Plates made at Berlin-Tegel By whom made A. Borsig G. m. b. H. When made 1927
 Rivets made at Fredrikstad By whom made Fredrikstads Mek. Verks When made 1917
 Rated Horse Power Owners A. B. Transmann (Benhard Torgelin) Port belonging to Helmingborg

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

For record Total Heating Surface of Boilers 2248 Is forced draft fitted Yes No. and Description of Boilers Two cylindrical multitubular Working Pressure 913 lbs Tested by hydraulic pressure to 440 lbs Date of test See below
 Certificate Can each boiler be worked separately Yes Area of fire grate in each boiler 98 No. and Description of Valves to each boiler Two springloaded Area of each valve 8.8 Pressure to which they are adjusted 220 lbs
 They fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 Smallest distance between boilers or uptakes and bunkers or woodwork 19" Inside Mean dia. of boilers 3350 Length 3350
 Material of shell plates Steel Thickness 28 Range of tensile strength — Are the shell plates welded or flanged No
 Grip. of riveting: cir. seams Double riveted overlap long. seams Double butt straps Diameter of rivet holes in long. seams 32 Pitch of rivets 299
 Width of plates or width of butt straps 468 Per centages of strength of longitudinal joint rivets 93 plate 86 Working pressure of shell by rules 993 lbs

No. and Description of Furnaces in each Two, Horizontal Material Steel Outside diameter 1030 Length of plain part — Thickness of plates 15
 Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 233 lbs Combustion chamber 171
 Material Steel Thickness: Sides 18.5 Back 18.5 Top 17 Bottom 18.5 Pitch of stays to ditto: Sides 170 Back 190
 Stays are fitted with nuts or riveted heads — Working pressure by rules 214 lbs Material of stays Steel Area at smallest part 1.73 Area supported by each stay 60.5 Working pressure by rules 298 lbs End plates in steam space: Material Steel Thickness 27
 How are stays secured Double nuts Working pressure by rules 290 lbs Material of stays Steel Area at smallest part 5.56
 Working pressure by rules 238 lbs Material of Front plates at bottom Steel Thickness 27 Material of back plate Steel Thickness 27 Greatest pitch of stays 370 Working pressure of plate by rules 315 Diameter of tubes 3 1/2
 Material of tube plates Steel Thickness: Front 27 Back 29.5 Mean pitch of stays 265 Pitch across wide spaces 340 Working pressures by rules 994 Girders to Chamber tops: Material Steel Depth and thickness of —
 Length as per rule 795 Distance apart 200 Number and pitch of Stays in each Two - 230
 Working pressure by rules 263 lbs Steam dome: description of joint to shell — % of strength of joint —
 Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet holes —
 Working pressure of shell by rules — Crown plates — Thickness — How stayed —

Superheater. Type Schmidt's Date of Approval of Plan — Tested by Hydraulic Pressure to 50 kg/cm²
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
 Pressure to which each is adjusted 220 lbs Is Easing Gear fitted Yes
 Diameter of Safety Valve 35

The foregoing is a correct description, Manufacturer.

Is the approved plan of boiler forwarded herewith Approved 23/8/27
 Total No. of visits 6

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

The scantlings and arrangement of the boilers have been verified as stated above. See also approved plan.
 A certificate of the superheater is attached herewith.
 The boilers found marked:

Port boiler. KJEDEL N ^o 962 PROVET 440 LBS. 19.10.17 E.H.	Starboard boiler. KJEDEL N ^o 961 PROVET 440 LBS. 28.2.17 A.H.
--	--

Survey Fee £ — When applied for, 19
 Travelling Expenses (if any) £ — When received, 19

Committee's Minute —
 Assigned —
 FRI. 16 SEP 1927
 FRI. 22 AUG 1930
 FRI. 8 MAY 1931

W167-0092

