

REPORT ON BOILERS.

No. 8060

18 SEP 1930

Received at London Office

Date of writing Report 11th Sept. 1930 When handed in at Local Office 16th Sept. 1930 Port of Göteborg
No. in Survey held at Göteborg Date, First Survey 15th January Last Survey 5th September 1930
Reg. Book. 66887 on the Steel Twin Le "CAPELLA" (Number of Visits 13) Gross Tons Net Tons
Master Built at Göteborg By whom built Eriksbergs M. V. Aktieab. When built 1930
Engines made at Göteborg By whom made Eriksbergs M. V. Aktieab. When made 1930
Boilers made at Göteborg By whom made Eriksbergs M. V. Aktieab. When made 1930
Registered Horse Power 724 Owners Tralleborgs Angf. Nya Aktieab. Port belonging to Tralleborg

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Plate, William Beardmore & Co. Ltd Glasgow Slaps, the Steel Company of Scotland, Ltd. Glasgow Boiler, Göteborgs Metall- & Maskinfabrik Göteborg

(Letter for record S) Total Heating Surface of Boilers 2.131 = 2620 sq. ft. Is forced draft fitted Yes No. and Description of

Boilers Two cylindrical multitubular Working Pressure 0.6 kg./sq. cm. [50 lb./sq. in.] Tested by hydraulic pressure to 275 lb./sq. in. Date of test 24.5.30

No. of Certificate 245/246 Can each boiler be worked separately Yes Area of fire grate in each boiler oil fired No. and Description of

safety valves to each boiler Double spring loaded Area of each valve 85 sq. in. Pressure to which they are adjusted 150 lb./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 No main boiler.

Smallest distance between boilers or uptakes and bunkers or woodwork 550 mm. Mean dia. of boilers 3505 mm. Length 3350 mm.

Material of shell plates Steel Thickness 21 mm. Range of tensile strength 27.94-31.75 kg./sq. cm. Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams double riv. lap long. seams double butt straps Diameter of rivet holes in long. seams 23.5 mm. Pitch of rivets 156 mm.

Lap of plates or width of butt straps 332 mm. Per centages of strength of longitudinal joint rivets 99.5 % Working pressure of shell by

rules 153 lb./sq. in. Size of manhole in shell 440 x 540 Size of compensating ring Dia. = 900 mm.; 28 mm. flange No. and Description of Furnaces in each

boiler 2 corrugated (Horseshoe) Material Steel Outside diameter 1125 mm. Length of plain part Thickness of plates

Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 160 lb./sq. in. Combustion chamber

plates: Material Steel Thickness: Sides 16 mm. Back 16 mm. Top 16 mm. Bottom 18 mm. Pitch of stays to ditto: Sides 230-245 mm. Back 200-200 mm.

Top 210-230 mm. If stays are fitted with nuts or riveted heads Both Working pressure by rules 150 lb./sq. in. Material of stays Steel

Area supported by each stay 100 x 200 mm. Working pressure by rules 58 lb./sq. in. End plates in steam space: Material Steel Thickness 19 mm.

Pitch of stays 350-406 mm. How are stays secured double nuts & outside washers 0-280 mm. Working pressure by rules 163 lb./sq. in. Material of stays Steel Area at smallest part 51 mm.

Area supported by each stay 350 x 406 mm. Working pressure by rules 154 lb./sq. in. Material of Front plates at bottom Steel Thickness 19 mm. Material of

Lower back plate Steel Thickness 19 mm. Greatest pitch of stays per plan Working pressure of plate by rules 184 lb./sq. in. Diameter of tubes 2 1/2 "

Pitch of tubes 96 x 91 mm. Material of tube plates Steel Thickness: Front 19 mm. Back 18 mm. Mean pitch of stays 260 mm. Pitch across wide

water spaces 330-182 mm. Working pressures by rules 171 lb./sq. in. Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 180 x 32 mm. Length as per rule 740 mm. Distance apart 210 mm. Number and pitch of Stays in each Two, 230 mm.

Working pressure by rules 154 lb./sq. in. Steam dome: description of joint to shell None % 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 None Thickness How stayed

UPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,
Eriksbergs Mek. Verkstads Aktiebolag Manufacturer.

Dates During progress of work in shops - - January 13, 14, 31 February 15 March 3, 17 April 29 May 5, 13, 24.
Survey while building During erection on board vessel - - - July 16, 23 September 5
Total No. of visits 13

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " " " " "

002515-002521-0207

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

These donkey boilers have been built under Special Survey in accordance with the Society's Rules and approved plan.

The workmanship is good.

The material as per test sheets attached.

Certificate (if required) to be sent to
(The Surveys are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	.. £ 342.16	:	When applied for.
Special £	:	10/9 1930
Donkey Boiler Fee £	:	When received.
Travelling Expenses (if any)	£	:	6.10.30 1930

Committee's Minute TUE. 30 SEP 1930

Assigned

See F. E. Rpt.

as per

✓

J. Bernadine

Engineer Surveyor to Lloyd's Register of Shipping



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Foundation