

Ref. 5 W

REL

ON 1

-6 DEC 1941

13307

18th Nov 41

20th Nov 41

GOTHENBURG

Supplement to
90015 D. M/S "SINUS"

26th May 1941

11th Nov. 41

29

237701

453449

Manufacturer: GOTHENBURG

F.B. GÖTAVERKEN

558

1941

Manufacturer: GOTHENBURG

F.B. GÖTAVERKEN

Serial No 1490

May 1941

Serial No: ---

Serial No: ---

2173

2174

May 1941

Serial No: 744

FEDERIKS NORDSTJERNEN

Placed in service at STOCKHOLM

MULTITUBULAR BOILERS MAIN AUXILIARY OR DONKEY

Manufacturer: Colvilles Ltd

Total Heating Surface of Boiler: $2 \times 150 \text{ m}^2$

Is forced draught fitted: Yes

Is main for service: S

Is oil or gas fired: Oil

No. and Description of Boilers: 2 Scotch multitubular

Working Pressure: 10.55 kg/cm^2

Tested by hydrostatic pressure at 15.4 kg/cm^2 Date: 15.7.41

No. of Certificate: 247, 248

Can each boiler be worked separately: Yes

Area of Firegrate in each boiler: ---

Is and Description of safety valves to each boiler: Double spring loaded

Area of each end of boiler: 6850 cm^2

Pressure to which they are tested: 50 kg/cm^2

Are they fitted with safety gear: Yes

In case of damage to boiler will steam from main boilers can enter the donkey boiler: No main boiler

Smallest diameter of boiler: 700 mm & APT

Is oil fuel carried in the donkey boiler: No

Smallest distance between tubes: 75 mm or plate to throat

Is the bottom of the boiler riveted: Yes

Largest diameter of boiler: 8586 mm

Length: 3450 mm

Shell plates: 5 mm S.S. Steel

Tensile strength: 44.50 kg/cm^2

Thickness: 20.5 mm

Is the shell plates welded or flanged: No

Is description of riveting: ---

Is D.P.L. ---

long. seam: D.B. steps 4 rows

Diameter of rivet holes: 27 mm

Long. seam: $27, 23 \text{ mm}$

Back of rivet: 279 mm

Percentage of strength of rivet and seam: 71.5

Percentage of strength of rivet and seam: 48

Percentage of strength of rivet and seam: 90.3

Percentage of strength of rivet and seam: 97.6

Percentage of strength of rivet and seam: 71.7

Working pressure of shell by Rules: 11 kg/cm^2

Thickness of shell: 20.5 mm

No. and Description of Furnaces in each Boiler: 2 horizontal corrugated

Material: S.S. Steel

Tensile strength: 44.47 kg/cm^2

Smallest inside diameter: 1124 mm

Length of furnace: 220 mm

Thickness of furnace: 12 mm

Description of corrugations: welded

Dimensions of furnace: 220 mm

Working pressure of furnace by Rules: 10.76 kg/cm^2

End plates: S.S. Steel

Tensile strength: 44.47 kg/cm^2

Thickness: 21 mm

Is full of rivet: 405×330

How are the end plates attached: D.N. 2 loose webbed rivets

Working pressure by Rules: 11.95 kg/cm^2

Tube plate: S.S. Steel

Tensile strength: 44.47 kg/cm^2

Thickness: 21 mm

Is full of rivet: 18 mm

Mean pitch of tubes: 242.5 mm

Is full of rivet: 350 mm

Tensile strength: 11.4 kg/cm^2

Girders: S.S. Steel

Tensile strength: 44.50 kg/cm^2

Thickness: 207 mm

at center: $180, 2 \times 20.5 \text{ mm}$

at center: 762 mm

at center: 207 mm

at ends: $2, 210 \text{ mm}$

at ends: 13.5 kg/cm^2

at ends: 18 mm

at ends: 18 mm

Tensile strength: 44.47 kg/cm^2

Thickness: 18 mm

Thickness: 18 mm

Thickness: 18 mm

Pitch: $210 \times 210 \text{ mm}$

Pitch: $209 \times 215 \text{ mm}$

Pitch: $207 \times 210 \text{ mm}$

Working pressure: 11.9 kg/cm^2

Working pressure: 44.47 kg/cm^2

Working pressure: 44.47 kg/cm^2

Thickness: 21 mm

Thickness: 21 mm

Thickness: 21 mm

Thickness: 21 mm

Pitch of rivets: $330 \times 209 \text{ mm}$

Pitch of rivets: $330 \times 209 \text{ mm}$

Working pressure: 10.55 kg/cm^2

Working pressure: 44.50 kg/cm^2

Working pressure: 44.50 kg/cm^2

Thickness: 20.5 mm

Thickness: 6 mm

Thickness: $405 \times 330 \text{ mm}$

Working pressure: 15.1 kg/cm^2

Working pressure: 44.47 kg/cm^2

Working pressure: 44.47 kg/cm^2

Thickness: 38 mm

Thickness: 9 mm



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008401-008408-00202

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description.

A.B. GÖTAVERKEN
(Sgd) Allan Borgström

Manufacturer

Date of Survey	During progress of work on ship	May 26 June 3. 18. July 7. 16. 17. 18. 24. 25
While installing	During erection and board vessel	July 27. Aug. 1. 12. 14. 29. 30. Oct. 1. 3. 11. 13. 15. 31 Nov. 17. Sept. 14. Oct. 2. 4. 6. 8. 30. 31. Nov. 11.

Are the approved plans of boiler and superheater forwarded herewith? *2.8.39*
If not state date of approval:
Total No. of visits *29*

Is this Boiler a duplicate of a previous case. *Yes*

1/ so, state Vessel's name and Report No. "Tunja" Ent. rpt. No. 2695

GENERAL REMARKS

These bridges have been built under
good plans. The workmanship and
are attached.

The boilers have been securely fitted in the vessel under my inspection and to my satisfaction and the safety valves have been adjusted under steam to 150 lbs./sq.

KIP 354 00

4784 4240 10

20th Nov 1911

FRI. 19 DEC 1941

See Got. J. E. 13307

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