

REPORT ON BOILERS.

No. 7328.

Received at London Office

of writing Report 16th November 1928

When handed in at Local Office 16th November 1928

Port of Gothenburg

20 NOV 1928

in Survey held at Gothenburg

Date, First Survey 28th November 1927 Last Survey 2nd November 1928

Book. (Supplement)

305 on the STEEL TWIN SC

"NIKE"

(Number of Visits 11)

Gross 9827.05
Tons Net 5514.45

Built at GOTHEBURG

By whom built AKT. GÖTAVERKEN

When built 1928.

Boilers made at GOTHEBURG

By whom made AKT. GÖTAVERKEN

When made 1928.

Boilers made at GOTHEBURG

By whom made AKT. LINDHOLMEN-MOTALA

When made 1928.

Registered Horse Power

Owners REDERI A/B TRANSOL

Port belonging to GOTHEBURG.

MULTITUBULAR BOILERS

MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Plates: Messrs Kenschel & Sohn, Kattingen.

Rings: Messrs H. & L. Lindholm, Motala, Nils Holmström.

Tubes: Messrs Mitteldeutsche Stahlwerke AG, Kriesa a. d. Elbe.

Boiler for record 5

Total Heating Surface of Boilers $2 \times 133 \text{ m}^2$ [24143.65 sq. ft.] Is forced draft fitted Yes

No. and Description of

Boilers 2 cylindrical multitubular Working Pressure 0.55 kg/cm^2 [80 lbs] Tested by hydraulic pressure to 19.4 kg/cm^2 Date of test 14.4.28

Certificate 222/223 Can each boiler be worked separately Yes

Area of fire grate in each boiler Oil fired No. and Description of

Valves to each boiler Double spring loaded Diam. of each valve 75 mm Pressure to which they are adjusted 155 lbs/10"

they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers

Least distance between boilers on uptakes and bunkers of woodwork 750 mm

Mean dia. of boilers 3505 mm Length 3380 mm

Material of shell plates S.M. Steel Thickness 20 mm

Range of tensile strength 45.7-49.0 kg/cm²

Are the shell plates welded or flanged No.

Pitch of riveting: cir. seams Double riv. lap long. seams Double butt straps

Diameter of rivet holes in long. seams 23.8 mm Pitch of rivets 136 mm

of plates or width of butt straps Outer 378 mm

Per centages of strength of longitudinal joint rivets 105 plate 90.1

Working pressure of shell by

11.3 kg/cm² Size of manhole in shell 400 x 500 mm

Size of compensating ring 800 x 700 x 20 mm Flanged No. and Description of Furnaces in each

2 corrugated (Harrison) Material S.M. Steel

Outside diameter 1200 mm Length of plain part

Thickness of plates Crown 12 mm Bottom 12 mm

Description of longitudinal joint Welded

No. of strengthening rings

Working pressure of furnace by the rules 10.75 kg/cm² Combustion chamber

Material S.M. Steel Thickness: Sides 17 mm Back 17 mm Top 17 mm Bottom 17 mm

Pitch of stays to ditto: Sides 210 x 210 mm Back 205 x 215 mm

207 x 210 mm If stays are fitted with nuts or riveted heads Riveted over

Working pressure by rules 10.70 kg/cm² Material of stays S.M. Steel Diam. at

Best part 38 mm Area supported by each stay 265 x 245 mm

Working pressure by rules 10.56 kg/cm² End plates in steam space: Material S.M. Steel Thickness 20 & 21 mm

of stays 405 x 330 mm How are stays secured Washers 0.24 mm

Working pressure by rules 11.3 kg/cm² Material of stays S.M. Steel Area at smallest part 57 mmsupported by each stay 405 x 330 mm Working pressure by rules 12.0 kg/cm²

Material of Front plates at bottom S.M. Steel Thickness 21 mm Material of

Back plate S.M. Steel Thickness 20 mm

Greatest pitch of stays 24 per plan Working pressure of plate by rules 10.9 kg/cm² Diameter of tubes 2 1/2"

of tubes 89 x 95 mm Material of tube plates S.M. Steel Thickness: Front 21 mm Back 18 mm

Mean pitch of stays 280 mm Pitch across wide

spaces 330 mm Working pressures by rules 11.52 kg/cm²

Girders to Chamber tops: Material S.M. Steel Depth and thickness of

at centre 185 x 17 mm Length as per rule 735

Distance apart 207 mm Number and pitch of Stays in each 2 - 210 mm

30. Working pressure by rules 12.13 kg/cm² 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

of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER.

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

of Test

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

Order of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,

AKTIEBOLAGET LINDHOLMEN-MOTALA

ERIK W. SUNDBLAD

Manufacturer.

During progress of 1927: 28/11, 6/12, 21/12, 30/12, 1928: 2 1/2, 4/3, 11/4, 14/4

work in shops - - -

Is the approved plan of boiler forwarded herewith No.

Plan approved 30.6.27

During erection on 13/9, 11/10, 2/11

board vessel - - -

Total No. of visits 11

FNL FULLMART.

GENERAL REMARKS

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

These boilers have been built under Special Survey in accordance with the Society's Rules and approved plans. The workmanship is good. The material for these boilers as well as for the boilers for Götaaverkens 1/54142 415 is per test sheets attached.

Survey Fee £ 345.80

When applied for 14 November 1928

Travelling Expenses (if any) £

When received, 24.1.1929

Committee's Minute

TUE. 27 NOV 1928

Signed See Minute on Got. Rpt 7328

attached

E. Berneelius
Engineer Surveyor to Lloyd's Register of Shipping.

W/1088-0199

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Foundation