

# REPORT ON BOILERS.

No. 1929

17 AUG 1952

Received at London Office

Writing Report, 16th July 52

When handed in at Local Office

Port of HAMBURG

Survey held at HAMBURG

Date, First Survey 4th March 1952

Last Survey 10th July 1952

on the M.T. ASKAUG TORN.

(Number of Visits, 12)

Gross  
Net

Uddevalla

By whom built Uddevallavarvet

Yard No. 126/523

When built

made at

By whom made

Engine No.

When made

made at Hamburg

By whom made

Ottensener Eisenwerke A.G.

Boiler No. 5327/5328

When made 1952

l Horse Power

Owners

Port belonging to

## TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY

Manufacturers of Steel Hüttenwerk Huckingen A.G., Duisburg-Wanheim

(Letter for Record S)

Heating Surface of Boilers 4,966.8 sq.ft (461.6 m<sup>2</sup>)

Of Superheaters

none

or Register Book 4,966.8 sq.ft.

Is forced draught fitted

-

Coal or Oil fired Oil

Description of Boilers Two, Scotch Type, Marine Single Ended

Working Pressure 170.7 lb. (12 Atm.)

by hydraulic pressure to 21.5 Atm.

Date of test 7 + 10.7.52

No. of Certificate 30 + 31

Can each boiler be worked separately

of Firegrate in each Boiler

No. and Description of safety valves to each boiler

of each set of valves per boiler

per Rule

as fitted

Pressure to which they are adjusted

Are they fitted with easing gear

of donkey boilers, state whether steam from main boilers can enter the donkey boiler

st distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

st distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

st internal dia. of boilers 4100 mm

Length 3645 mm

Shell plates: Material SMOH Steel

Tensile strength 47 kg/mm<sup>2</sup>

on welded, state name of welding Firm riveted

Have all the requirements of the Rules for Class I vessels

plied with Thickness 26

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

double riveted

h. F. s. DB. TR. with alternate rivets in outer row omitted

Diameter of rivet holes in

circ. seams

31 mm

long. seams

31 mm

Pitch of rivets

84.7 mm

age of strength of circ. end seams

plate 63.4

rivets 52.4

Percentage of strength of circ. intermediate seam

plate

rivets

age of strength of longitudinal joint

plate 82.6

rivets 116.6

combined 88.6

ess of butt straps

outer 26 mm

inner 26 mm

No. and Description of Furnaces in each Boiler Three, Fox Type

al SMOH Steel

Tensile strength

41 kg/mm<sup>2</sup>

Smallest outside diameter

924 mm

of plain part

top

bottom

Thickness of plates

12 mm

Description of longitudinal joint

welded

sions of stiffening rings on furnace or c.c. bottom

none

plates in steam space:

Material SMOH Steel

Tensile strength

41 kg/mm<sup>2</sup>

Thickness

24 mm

Pitch of stays 420 x 360 mm

re stays secured

Electric welded from both sides, elec. welded washers

plates: Material

front

back

SMOH Steel

SMOH Steel

Tensile strength

41 kg/mm<sup>2</sup>

41 kg/mm<sup>2</sup>

Thickness

24 mm

18 mm

21 mm

pitch of stay tubes in nests 206 x 206 mm

Pitch across wide water spaces 260 x 103 mm

rs to combustion chamber tops: Material

SMOH Steel

Tensile strength

47 kg/mm<sup>2</sup>

Depth and thickness of girder

tre 240 x 26 mm

Length as per Rule

700 mm

Distance apart

200 mm (Centre 180 mm)

No. and pitch of stays

welded

Combustion chamber plates: Material SMOH Steel

strength 41 kg/mm<sup>2</sup>

Thickness: Sides

18 mm

Back 18 mm

Top 18 mm

Bottom 18 mm

of stays to ditto: Sides

180 x 180 mm

Back 180 x 180 mm

Top

welded girders

Are stays fitted with nuts or riveted over

riveted over

except margins

plate at bottom: Material

S.M.O.H. Steel

Tensile strength

41 kg/mm<sup>2</sup>

ess 24 mm

Lower back plate: Material

SMOH Steel

Tensile strength

41 kg/mm<sup>2</sup>

Thickness

24 mm

of stays at wide water space

180 x 360 mm

Are stays fitted with nuts or riveted over

fitted with nuts

of stays: Material

SMOH Steel

Tensile strength

44 kg/mm<sup>2</sup>

ter At body of stay

63 mm

Over threads

No. of threads per inch

welded

stays: Material

SMOH Steel

Tensile strength

41 kg/mm<sup>2</sup>

ter At turned off part

31.3 mm

Over threads

34.92 mm

No. of threads per inch

9

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Are the stays drilled at the outer ends. no Margin stays: Diameter { At turned off part, 37.66 mm  
or 41.27 mm  
Over threads. 44.45 mm

No. of threads per inch 9

Tubes: Material SMOH Steel External diameter { Plain 76 mm  
Stay 76 mm Thickness { 4 mm  
5 and 7 mm No. of threads per inch welded

Pitch of tubes 103 x 103 mm Manhole compensation: Size of opening 420 x 520 mm

Section of compensating ring 109 cm<sup>2</sup> No. of rivets and diameter of rivet holes 38 - 33 mm dia.

Outer row rivet pitch at ends 190 mm Depth of flange if manhole flanged 85 mm Steam Dome: Material none

Tensile strength - Thickness of shell - Description of longitudinal joint -

Diameter of rivet holes - Pitch of rivets - Percentage of strength of joint { Plate -  
Rivets -

Internal diameter - Thickness of crown - No. and diameter of stays -

Inner radius of crown -

How connected to shell - Size of doubling plate under dome - Diameter of rivet holes and of rivets in outer row in dome connection to shell -

Type of Superheater none Manufacturers of { Tubes -  
Steel forgings -  
Steel castings -

Number of elements - Material of tubes - Internal diameter and thickness of tubes -

Material of headers - Tensile strength - Thickness - Can the superheater be shut off the boiler be worked separately -

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler -

Area of each safety valve - Are the safety valves fitted with easing gear -

Pressure to which the safety valves are adjusted - Hydraulic test pressure -

tubes - forgings and castings - and after assembly in place - Are drain cock valves fitted to free the superheater from water where necessary -

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

The foregoing is a correct description,

Ottensener Eisenwerk Aktiengesellschaft Manufacturer

Dates of Survey while building { During progress of work in shops - - Mar. 4, 6, Apr. 4, 15, 18, May 7,  
12, 16, June 4, July 2, 7, 10 - 1952. Are the approved plans of boiler and superheater forwarded herewith yes  
(If not state date of approval.)

{ During erection on board vessel - - - Total No. of visits 12

Is this Boiler a duplicate of a previous case no If so, state Vessel's name and Report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under

Special Survey in conformity with the Society's Rules and Regulations, the approved plans and the  
Secretary's letters. The materials and workmanship are good. The boilers have been examined during  
construction and are eligible, in my opinion, to be installed in a vessel classed with this Society.

Survey Fee ... DM 900 : When applied for, 19

Travelling Expenses (if any) DM : 36 : When received 19

A. Kähler

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned See F.E. mch. rpt.



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