

REPORT ON BOILERS.

No. 794

Received at London Office

2 MAR 1953

Date of writing Report 27th Feb. 53

When handed in at Local Office 27th Feb. 53

Port of KIEL

0 kg/cm²

Survey held at KIEL

Date, First Survey 1st October, 1952 Last Survey 10th Jan. 1953

on the M.V. "HOEGH CLIPPER"

(Number of Visits 14) Gross 947.7 Tons Net

at Kiel

By whom built Howaldtswerke A.G.

Yard No. 960 When built 1953

Engines made at Kiel

By whom made Howaldtswerke A.G.

Engine No. 960 When made 1953

Boilers made at Kiel

By whom made Howaldtswerke A.G.

Boiler No. 196 When made 1953

Boilers Leif Hoegh

Port belonging to Oslo

DONKEY

VERTICAL/BOILER.

made at Kiel

By whom made Howaldtswerke A.G.

Boiler No. 196

When made 1953 Where fixed Kiel

Manufacturers of Steel Rheinische Röhrenwerke A.G. Mülheim/Ruhr

Total Heating Surface of Boiler 50 m² = 538 sq.ft.

Is forced draught fitted no Coal or Oil fired oil fired

Name and Description of Boilers One vertical multitubular boiler

6, 7, 8, 9

Tested by hydraulic pressure to 14 kg/cm²

Date of test 25.11.52

Working Pressure 7 kg/cm²

Is oil fuel carried in the double bottom under boiler yes

No. and description of safety valves to each boiler 2 ordinary spring loaded

No. of Certificate 510

Pressure to which they are adjusted 7 kg/cm²

Are they fitted with easing gear yes

Whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler yes

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated yes

Largest internal dia. of boiler 1970 mm Height 3035 mm

Material SM steel

Tensile strength 44-50 kg/mm² Thickness 15 mm

the shell plates welded or flanged welded

If fusion welded, state name of welding firm Howaldtswerke A.G., Kiel

Do all the requirements of the Rules for Class I vessels been complied with yes

Description of riveting: circ. seams { end welded inter

seams welded

Dia. of rivet holes in { circ. seams long. seams

Pitch of rivets

Percentage of strength of circ. seams { plate rivets

Longitudinal joint { plate rivets combined

Thickness of butt straps { outer inner

Shell Crown: Whether complete hemisphere, dished partial

Material SM steel

Tensile strength 44-50 kg/cm² Thickness 12 mm

1600 mm

Description of Furnace: Plain, spherical, or dished crown dished

Material SM steel

Tensile strength 41-47 kg/mm²

Thickness 16 mm

External diameter { top bottom

Length as per Rule

of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Radius of stays over thread

Radius of dished furnace crown 1330 mm

Thickness of Ogee Ring 20 mm (semi circular)

Diameter as per Rule { D 2000 mm d 1700 mm

Combustion Chamber: Material SM steel

Tensile strength 41-47 kg/mm²

Thickness of top plate 16 mm

if dished 1346 mm

Thickness of back plate 18 mm

Diameter if circular 1700 mm

as per Rule

Pitch of stays 450x530 mm

Stays fitted with nuts or riveted over welded

Diameter of stays over thread

Plates: Material { front SM steel back SM steel

Tensile strength { 41-47 kg/mm² 41-47 kg/mm²

Thickness { 22 mm 24 mm

Mean pitch of stay tubes in nests 204

prising shell, dia. as per Rule { front back

Pitch in outer vertical rows { 204 mm

Dia. of tube holes FRONT { stay 78 mm plain 78 mm

BACK { stay 76 mm plain 76 mm

h alternate tube in outer vertical rows a stay tube

Boilers to Combustion Chamber Tops: Material

Tensile strength

and thickness of girder at centre

Length as per Rule

No. and pitch of stays in each

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Crown Stays: Material - Tensile strength - Diameter { at body of stay -
or
over threads -

No. of threads per inch - **Screw Stays:** Material - Tensile strength -

Diameter { at turned off part -
or
over threads - No. of threads per inch - Are the stays drilled at the outer ends -

Tubes: Material SM steel ✓ External diameter { plain 76 mm ✓
stay 76 mm ✓ Thickness { 3.5 mm ✓
7 mm

No. of threads per inch welded ✓ Pitch of tubes 102 mm ✓

Manhole Compensation: Size of opening in shell plate 436 x 336 mm ✓ Section of compensating ring 100x18 mm No. of rivets and diamines m
of rivet holes welded ✓ Outer row rivet pitch at ends -- Depth of flange if manhole flanged --

Uptake: External diameter -- Thickness of uptake plate --

Cross Tubes: No. - External diameters { -- Thickness of plates -

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

The following is a correct description,
KIEHL HOWALDTSWILKE
Aktiengesellschaft

Dates of Survey while building } During progress of work in shops - - } 1,3,9,16,22/19 - 13,17,20,25/11/52 Is the approved plan of boiler forwarded herewith..... yes
(If not state date of approval.)
During erection on board vessel - - } 2,3,6,23/12/52, - 10/1/53 Total No. of visits..... 14

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.)..... This vertical boiler has been constructed under Special Survey, from tested materials, and in accordance with the Rules, approved plans and relative letters.

The welded shell has been made in accordance with the Rules for Fusion Welded Pressure Vessels Class 1 plates:
The boiler has been hydraulically tested to 14 kg/cm² and satisfactorily installed in the above the shell
named vessel, examined under working conditions and its safety valves adjusted under steam to 100 lbs/□". e all the
The materials and workmanship are good.

This boiler is eligible, in my opinion, to be classed with the notation * NDB 1,53.

For identification purposes, the boiler is marked:

No. 510
LLOYD'S TEST
200 lb.
WP 100 lb.
ES.25.11.52 ES

Survey Fee ... **construction** ... £ 32 : 10 : 0
(F.welding)
Travelling Expenses (if any) £ : :

When applied for 19.....
When received 19.....

FRI. 20 MAR 1953

Date.....
Committee's Minute..... See F.E. mch. rpt.

Engineer Surveyor to Lloyd's Register of Shipping