

REPORT ON BOILERS.

No. 3586/38

Received at London Office

Writing Report 8th July 1952 When handed in at Local Office 19... Port of Düsseldorf

Survey held at Kreuztal/Sieg Date, First Survey 18.1.52 Last Survey 15.3. 1952

on the M.T. "ISEBEK" (Number of Visits 8) Tons Gross Net

Built at Elmshorn By whom built D.W. Kremer Sohn Yard No. 1001 When built 1952

made at By whom made Engine No. When made

made at Kreuztal/Sieg By whom made Messrs. Schaubstahlwerke Boiler No. 20577 When made 1952

Horse Power Owners Port belonging to

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Messrs. Ruhrstahl A.G., Henrichshütte, Hattingen/Ruhr (Letter for Record)

Heating Surface of Boilers 60 square metres Is forced draught fitted no Coal or Oil fired Oil fired

Description of Boilers 20577 Cochran Type Working Pressure 9 kgs/cm²

Hydraulic pressure to 17 kgs/cm² Date of test 15.3.52 No. of Certificate 20577 Can each boiler be worked separately -

Firegrate in each Boiler oil fired No. and Description of safety valves to each boiler one double spring loaded cast steel safety valve

each set of valves per boiler as per drawing 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

distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

internal dia. of boilers 2000 mm Length 4300 mm Shell plates: Material S.M. Steel Tensile strength 44-55 kg/mm²

13.0 mm Are the shell plates welded or flanged flanged Description of riveting: circ. seams single riveting

double butt straps double riveted Diameter of rivet holes in circ. seams 20 mm Pitch of rivets as approved

23 mm long. seams as approved Percentage of strength of circ. intermediate seam as approved

as approved Working pressure of shell by Rules as approved

as approved

of butt straps outer 9 mm inner 12 mm No. 820 one fusion welded fire box

S.M. Steel Tensile strength 41-47 kg/mm² Smallest outside diameter as per drawing

of plain part top bottom Thickness of plates crown 20.0 Description of longitudinal joint

bottom Working pressure of furnace by Rules as approved

of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules as approved

es in steam space: Material Tensile strength Thickness Pitch of stays

stays secured Working pressure by Rules

ates: Material front S.M. Steel Tensile strength 41-47 kg/mm² Thickness 30 mm / 22 mm

back S.M. Steel

ch of stay tubes in nests as per drawing Pitch across wide water spaces as per drawing Working pressure front as approved

3 stay plates fitted as per drawing back as approved

o combustion chamber tops: Material Tensile strength Depth and thickness of girder

Length as per Rule Distance apart No. and pitch of stays

Working pressure by Rules fire box

Combustion chamber plates see above

length see above Thickness: Sides Back Top Bottom

stays to ditto: Sides none fitted Back none fitted Top none fitted Are stays fitted with nuts or riveted over none fitted

pressure by Rules Front plate at bottom: Material Tensile strength Thickness

Lower back plate: Material Tensile strength Thickness

stays at wide water space Are stays fitted with nuts or riveted over

pressure Main stays: Material Tensile strength

At body of stay No. of threads per inch Area supported by each stay

Over threads Screw stays: Material Tensile strength

At turned off part No. of threads per inch Area supported by each stay

Over threads

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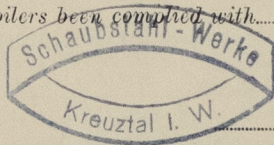
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Working pressure by Rules. - Are the stays drilled at the outer ends. - Margin stays: Diameter ^{At turned off part,} _{or} Over threads. -
No. of threads per inch. - Area supported by each stay. - Working pressure by Rules. -
Tubes: Material SM Steel External diameter ^{Plain} 63.5 ^{mm} Thickness ^{Stay} 35 ^{mm} No. of threads per inch. -
Pitch of tubes as per drawing Working pressure by Rules as approved Manhole compensation: Size of
shell plate as per drawing Section of compensating ring as per drawing No. of rivets and diameter of rivet holes as per dra
Outer row rivet pitch at ends. - Depth of flange if manhole flanged not flanged 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. - Working pressure by Rules. - Thickness of crown. - No. and
stays. - Inner radius of crown. - Working pressure by Rules. -
How connected to shell. - Size of doubling plate under dome. - Diameter of rivet hole
of rivets in outer row in dome connection to shell. -

Type of Superheater. - 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
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. - Working pr
Rules. - Pressure to which the safety valves are adjusted. - Hydraulic
tubes. - forgings and castings. - and after assembly in place. - Are d
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

Dates of Survey while building { During progress of work in shops - - 18.1.-7.2.-14.2.-18.2.-21.2. Are the approved plans of boiler and superheater forwarded herewith 21
28.2.-6.3.-13.3. (If not state date of approval.) London lett
During erection on board vessel - - - Total No. of visits.

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.)

The boiler was constructed under special survey.
All material used in the construction was tested as required by the Rules of
of this Society with satisfactory results.
The workmanship was acceptable.
It is submitted this boiler is suitable for installation in a classed ship and t
the notation  NDB (with date) when satisfactorily installed.

Survey Fee ... £ : : } When applied for, 19.
Travelling Expenses (if any) £ : : } When received, 19.

FRI. 22 AUG 1952

Committee's Minute.

Assigned. See F.E. Walsh, rpt. Ham 1884



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Engineer Surveyor to Lloyd's Register of