

REPORT ON BOILERS.

No. 3586/38

Received at London Office

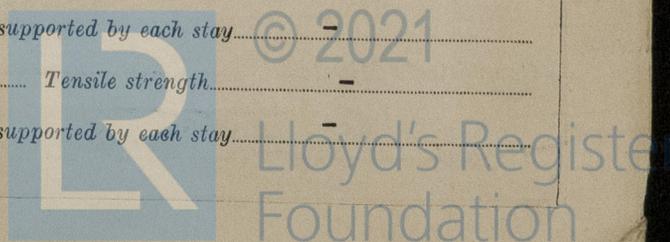
23 JUL 1952

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 Kreuztal/Sieg By whom made Messrs. Schaubstahlwerke Engine 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
 each set of valves per boiler } per Rule as per drawing } safety valve
 } as fitted 2x60 mm Ø } 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 } end single riveting
 } inter double riveting
 double butt straps } Diameter of rivet holes in } circ. seams 20 mm Pitch of rivets } as approved
 double riveted } } long. seams 23 mm } as approved
 Percentage of strength of circ. end seams } plate as approved } Percentage of strength of circ. intermediate seam } plate as approved
 } rivets as approved } } rivets as approved
 Percentage of strength of longitudinal joint } plate as approved } Working pressure of shell by Rules as approved
 } rivets as approved } } combined
 Thickness of butt straps } outer 9 mm } No. and Description of Furnaces in each Boiler No. 820 one fusion welded fire box
 } inner 12 mm } with "Saaake" Oil burner
 Material S.M. Steel Tensile strength 41-47 kg/mm² Smallest outside diameter as per drawing
 Thickness of plates } top } Description of longitudinal joint -
 } bottom 20.0 } Working pressure of furnace by Rules as approved
 Stays of stiffening rings on furnace or c.c. bottom - Working pressure of furnace by Rules as approved
 Stays in steam space: Material - Tensile strength - Thickness - Pitch of stays -
 Stays secured - Working pressure by Rules -
 Material } front S.M. Steel } Tensile strength 41-47 kg/mm² } Thickness 30 mm / 22 mm
 } back S.M. Steel } }
 Pitch of stay tubes in nests as per drawing Pitch across wide water spaces as per drawing Working pressure } front as approved
 } back as approved
 Combustion chamber tops: Material non fitted Tensile strength - Depth and thickness of girder -
 Length as per Rule - Distance apart - No. and pitch of stays -
 Working pressure by Rules - fire box 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
 Working 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 -
 Working 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 none Tensile strength -
 Working pressure by Rules - At turned off part - No. of threads per inch - Area supported by each stay -
 Over threads -

19832



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 ^{Stay.} 63.5 Thickness 35 mm 7 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 drawing
 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 holes 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 casing gear. Working pressure. Pressure to which the safety valves are adjusted. Hydraulic test tubes. forgings and castings. and after assembly in place. Are 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. ^{During erection on board vessel - - -} 28.2.-6.3.-13.3. Are the approved plans of boiler and superheater forwarded herewith 21 London letter EC
 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

J. J. Smith
 Engineer Surveyor to Lloyd's Register of

Committee's Minute.....

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



© 2021
 Lloyd's Register
 Foundation