

# REPORT ON BOILERS.

No. 1437

Received at London Office.....

7 AUG 1951

Date of writing Report 23rd. Feb. 1951 When handed in at Local Office.....

Port of HAMBURG

No. in Survey held at HAMBURG

Date, First Survey 18th September 1950 Last Survey 21st December 1950

933 on the Tw. Sc. Motor Tanker "IRLAND"

(Number of Visits 7)

Gross 10000  
Net 3000

built at Hamburg

By whom built Deutsche Werft A.G.

Yard No. 235

When built 1950

Engines made at Augsburg

By whom made Maschinenfabrik Augsburg-Nürnberg

Engine No. 681760  
681770

When made 1943

Boilers made at Hamburg

By whom made Deutsche Werft A.G.

Boiler No. 1150/51

When made 1950

Indicated Horse Power 1170

Owners A/S Det Danske Franske Dampskibsselskab

Port belonging to Copenhagen

Two Waste Heat La Mont Donkey Boiler

~~MAIN BOILERS MAIN AND DONKEY BOILERS~~

Manufacturers of Steel Stahl- und Röhrenwerk Reisholz A.G. - Werk Reisholz

(Letter for Record S)

Total Heating Surface of Boilers each 100 sq. metres

Of Superheaters -

Is forced draught fitted -

Coal or Oil fired exhaust gas fired

Description of Boilers Two Waste Heat La Mont Donkey Boiler Coil Systems

Working Pressure 12 kg/sq. cm

Tested by hydraulic pressure to 342 lbs.

Date of test 25.10.50

No. of Certificate 369/370

Can each boiler be worked separately only in connection with donkey boiler oil fired.

Area of Firegrate in each Boiler -

No. and Description of safety valves to each boiler One Single Spring Loaded Ordinary Lift

Area of each set of valves per boiler

per Rule -  
as fitted 962 sq. mm

Pressure to which they are adjusted 12 kg/sq. cm

Are they fitted with easing gear yes

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

Smallest distance between boilers or uptakes and bunkers or woodwork -

Is oil fuel carried in the double bottom under boilers -

Smallest distance between shell of boiler and tank top plating -

Is the bottom of the boiler insulated -

Largest internal dia. of boilers 1360 mm

Length 4170 mm

Shell plates: Material S.M. Steel

Tensile strength 45.9 & 46.4 kg.p.

Welding union welded, state name of welding Firm -

Have all the requirements of the Rules for Class I vessels

Complied with

Thickness of shell 10 mm

Are the Headers 108 x 96 mm welded

yes made from seamless steel, ends & tube rippler welded on.

of coils 4 double coils  
3 triple coils  
2 quadruple coils

coil tubes

Diameter of 32 - 26 mm

Thickness

inter 3 mm

Percentage of strength of circ. end seams

plate rivets

Percentage of strength of circ. intermediate seam

plate rivets

Percentage of strength of longitudinal joint

plate rivets combined

Working pressure of tubes by Rules 16, 25 kg/sq. mm

Thickness of butt straps

outer inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Thickness of plain part

top bottom

Thickness of plates

Description of longitudinal joint

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

Plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

Are stays secured

Plates: Material

front back

Tensile strength

Thickness

Pitch of stay tubes in nests

Pitch across wide water spaces

Stays to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

Centre

Length as per Rule

Distance apart

No. and pitch of stays

Chamber

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Of stays at wide water space

Are stays fitted with nuts or riveted over

Ship stays: Material

Tensile strength

At body of stay

or

Over threads

No. of threads per inch

Stays: Material

Tensile strength

At turned off part

or

Over threads

No. of threads per inch



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Are the stays drilled at the outer ends..... Margin stays: Diameter { At turned off part..... or Over threads.....

No. of threads per inch.....

Tubes: Material..... External diameter { Plain..... Stay..... Thickness { No. of threads per inch.....

Pitch of tubes..... Section of compensating ring..... No. of rivets and diameter of rivet holes.....

shell plate..... Depth of flange if manhole flanged..... Steam Dome: Material.....

Outer row rivet pitch at ends..... Thickness of shell..... Description of longitudinal joint.....

Tensile strength..... Pitch of rivets..... Percentage of strength of joint { Plate..... Rivets.....

Diameter of rivet holes..... Thickness of crown..... No. and diameter.....

Internal diameter..... Inner radius of crown.....

stays..... Size of doubling plate under dome..... Diameter of rivet holes and.....

How connected to shell.....

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 shut off here.....

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

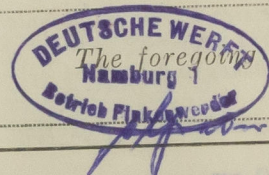
Area of each safety valve..... Are the safety valves fitted with easing gear.....

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

tubes..... forgings and castings..... and after assembly in place.....

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.....



Dates of Survey while building { During progress of work in shops - - Sep. 18th, 28th, Oct. 23rd, 25th 1950 Are the approved plans of boiler and superheater forwarded herewith 10th Ju Com  
During erection on board vessel - - Nov. 7th, 20th, Dec. 21st 1950 (If not state date of approval.)

Total No. of visits Seven

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under Special Survey in conformity with the Society's Rules. The scantlings and arrangements are in accordance with those shown on the approved plans. Materials and workmanship are good. They have been properly installed in the above vessel, examined under working conditions and found good.

Survey Fee ... £ 61. 12. 0  
Travelling Expenses (if any) £ 33. 0. 0

When applied for 19. 1950  
When received 19. 1950

Blanchard J. F. ...  
Engineer Surveyor to Lloyd's Register of Shipping

TUES. 14 AUG 1951

Committee's Minute

Assigned Sir F. E. Moly. rpl.



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