

# REPORT ON BOILERS.

No. 22366

Received at London Office

JUN 10 1937

of writing Report 5th June 1937 When handed in at Local Office

Port of HAMBURG

Survey held at HAMBURG

Date, First Survey 28th April

Last Survey 15th May 1937.

(Number of Visits 2.) Tons { Gross X Net X

on the Construction No. 290

ter X Built at Malmö By whom built Kockums Mek. Verkst. Yard No. 260 When built 1937.

ines made at X By whom made X Engine No. X When made X

ate Heat La Mont Donkey/ By whom made Messrs. Deutsche Werft A.G. Boiler No. 743. When made 1937.

ers made at Hamburg Owners X Port belonging to X

inal Horse Power X

ate Heat La Mont Donkey Boiler Coil System.

~~Horizontal or Vertical Main or Auxiliary or Donkey~~

Tubes: Messrs. Press- & Walzwerke A.G. of Düsseldorf-Reisholz.

Headers: Messrs. Klöcknerwerke of Georgs-Marienhütte.

(Letter for Record)

tal Heating Surface of Boilers 80 sq.m.

Is forced draught fitted X

Coal or Oil fired exhaust gas.

and Description of Boilers One Waste Heat "La Mont" Donkey Boiler

Working Pressure 12 kgs/cm<sup>2</sup>.

ure ated by hydraulic pressure to 21.5 kgs Date of test 15/5/37. No. of Certificate 663

Can each boiler be worked separately X

en of Firegrate in each Boiler X No. and Description of safety valves to each boiler X

ea of each set of valves per boiler { per Rule X as fitted X Pressure to which they are adjusted X

Are they fitted with easing gear X

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

Is oil fuel carried in the double bottom under boilers X

allest distance between boilers or uptakes and bunkers or woodwork X

Is the bottom of the boiler insulated X

allest distance between shell of boiler and tank top plating X

Height

3410 mm

Headers

Material S.-M.-Steel Tensile strength 41-47 kg/mm<sup>2</sup>

argest internal dia. of boilers 1180 mm

ts. diam. 120/110 mm Are the shell plates welded or flanged X

Description of riveting: circ. seams { end X inter X

ore: 80/70 mm

Coil tubes 26/32 mm.

Thickness of shell 3 mm.

of Coils: 9 ) 3 double

Diameter of

percentage of strength of circ. end seams

plate X rivets X

Percentage of strength of circ. intermediate seam

percentage of strength of longitudinal joint

plate X rivets X combined X

Working pressure of tubes by Rules 16.25 kgs/mm<sup>2</sup>.

Thickness of butt straps { outer X inner X

No. and Description of Furnaces in each Boiler X

Material X

Tensile strength X

Smallest outside diameter X

Length of plain part { top X bottom X

Thickness of plates { crown X bottom X

Description of longitudinal joint X

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

Working pressure of furnace by Rules X

End plates in steam space: Material X

Tensile strength X

Working pressure by Rules X

How are stays secured X

Tube plates: Material { front X back X

Tensile strength { X X

Thickness { X X

Working pressure { front X back X

Mean pitch of stay tubes in nests X

Pitch across wide water spaces X

Depth and thickness of girder

Girders to combustion chamber tops: Material X

Tensile strength X

No. and pitch of stays

at centre X Length as per Rule X

Distance apart X

in each X Working pressure by Rules X

Combustion chamber plates: Material X

Tensile strength X Thickness: Sides X

Back X

Top X

Bottom X

Pitch of stays to ditto: Sides X

Back X

Top X

Are stays fitted with nuts or riveted over X

Working pressure by Rules X

Front plate at bottom: Material X

Tensile strength X

Thickness X

Lower back plate: Material X

Tensile strength X

Thickness X

Pitch of stays at wide water space X

Are stays fitted with nuts or riveted over X

Working Pressure X

Main stays: Material X

Tensile strength X

Diameter { At body of stay, X

No. of threads per inch X

Area supported by each stay X

Over threads X

Screw stays: Material X

Tensile strength X

Working pressure by Rules X

No. of threads per inch X

Area supported by each stay X

Diameter { At turned off part, X

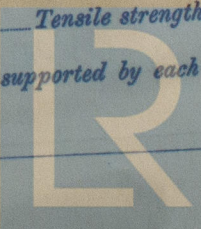
No. of threads per inch X

Area supported by each stay X

Over threads X

Tensile strength X

Thickness X



Lloyd's Register  
will 97-0109  
Foundation



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                      External diameter                      Plain Thickness                      Stay No. of threads per inch                       
Pitch of tubes                      Working pressure by Rules                      Manhole compensation: Size                       
shell plate                      Section of compensating ring                      No. of rivets and diameter of rivet holes                       
Outer row rivet pitch at ends                      Depth of flange if manhole flanged                      Steam Dome: Material                       
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 castings  
Number of elements                      Material of tubes                      Internal diameter and thickness of tubes                       
Material of headers                      Tensile strength                      Thickness                      Can the superheater be sh  
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 pressu  
Rules                      Pressure to which the safety valves are adjusted                      Hydraulic test  
tubes                     , castings                      and after assembly in place                      Are drain cocks or val  
to free the superheater from water where necessary                     

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

The foregoing is a correct description,

DEUTSCHE WERFT  
AGTIEGESELLSCHAFT

Manufacturer.

Dates of Survey                      During progress of work in shops - - 28th April, 15th May, 1934                      are the approved plans of boiler and superheater forwarded herewith 2nd Jan. 3  
while building                      During erection on board vessel - -                      (If not state date of approval.)  
Total No. of visits 2.

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. Kookums Mek. Verkst. Yard No. 191, Hamburg Report No. 21828.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Material and workmanship of this  
Waste Heat La Mont Donkey Boiler (Coil System) are of good quality. The materials used in its  
construction are made at works recognised by the Committee and tested by the Society's Surveyors  
in accordance with the requirements of the Rules.  
This waste heat donkey boiler having been made under Special Survey in conformity with the approv  
plan, the Secretary's letter and otherwise in compliance with the requirements of the Rules is  
eligible in my opinion to be classed in the Society's Register Book.- Donkey boiler pressure:  
170 lbs/sq. inch.

Survey Fee £ R.M. 84 :- When applied for, 25.5 1937  
Travelling Expenses (if any) £ 2 : 50 When received, 20.6 1937

H. Röhm

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 15 MAR 1937  
Assigned See Memo. Rpt. 1643