

## REPORT ON BOILERS.

No. 4130.

JUN 19 1939

Received at London Office

Date of writing Report 16<sup>th</sup> June 1939 When handed in at Local Office 19 Port of BREMENNo. in Survey held at BREMEN Date, First Survey 1<sup>st</sup> March 1939 Last Survey 7<sup>th</sup> June 1939

Reg. Book 88670 on the SINGLE SCREW m/v. JAVA (Number of Visits 14) Tons Gross 9250 Net 5646

Built at BREMEN By whom built DESCHIMAG WERK: A.G. WESER Yard No. 951 When built 1939

Engines made at BREMEN By whom made DESCHIMAG WERK: A.G. WESER Engine No. 162/163 When made 1939

Boilers made at BREMEN By whom made DESCHIMAG WERK: A.G. WESER Boiler No. 1835 When made 1939

Owners STOOMVAART MAATSCHAPPY "NEDERLAND" Port belonging to AMSTERDAM

## VERTICAL DONKEY BOILER.

Made at BREMEN By whom made DESCHIMAG A.G. WESER Boiler No. 1835 When made 1939 Where fixed upper Eng. Room

Manufacturers of Steel Mannesmannröhren-Werke, Abt. Heinrich Bierwieshütte of Hückelingen

Total Heating Surface of Boiler 80 m<sup>2</sup> Is forced draught fitted yes Coal or Oil fired oil firedNo. and Description of Boilers One Vertical Donkey Boiler Working pressure 5 kg/cm<sup>2</sup> 71 lb.Tested by hydraulic pressure to 10 kg/cm<sup>2</sup> Date of test 26<sup>th</sup> April 1939 No. of Certificate 214

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 spring loaded Safety Valves

Area of each set of valves per boiler { per rule approx. Pressure to which they are adjusted 5 kg/cm<sup>2</sup> Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler no main boiler Smallest distance between boiler or uptake and bunkers

or woodwork Is oil fuel carried in the double bottom under boiler Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated Largest internal dia. of boiler 2300 mm Height 5250 mm

Shell plates: Material P. M. Steel Tensile strength 35-41 kg/cm<sup>2</sup> Thickness 14 mm

Are the shell plates welded or flanged flanged Description of riveting: circ. seams { end 45° angle long. seams double butt straps

Dia. of rivet holes in { circ. seams 23.2 Pitch of rivets { 53.2 Percentage of strength of circ. seams { plate 60% of Longitudinal joint { plate 77% rivets 99% combined.

Working pressure of shell by rules 7.5 kg/cm<sup>2</sup> Thickness of butt straps { outer 14.7 inner 14.2

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished partial spherical Material P. M. Steel

Tensile strength 35-41 kg/cm<sup>2</sup> Thickness 16 mm Radius 2300 mm Working pressure by rules 5 kg/cm<sup>2</sup>Description of Furnace: Plain, spherical, or dished crown partial spherical Material P. M. Steel Tensile strength 41-43 kg/cm<sup>2</sup>

Thickness of crown 20 mm External diameter { top Length as per rule Working pressure by rules

Pitch of support stays circumferentially and vertically Are stays fitted with nuts or riveted over

Diameter of stays over thread Radius of spherical or dished furnace crown 2300 mm Working pressure by rule 5.2 kg/cm<sup>2</sup>Thickness of Ogee Ring 20 mm Diameter as per rule { D 2300 Working pressure by rule 5.1 kg/cm<sup>2</sup>Combustion Chamber: Material P. M. Steel Tensile strength 35-41 kg/cm<sup>2</sup> Thickness of top plate 18 mmRadius if dished 1800 mm Working pressure by rule 5.9 kg/cm<sup>2</sup> Thickness of back plate 18 mm Diameter if circular 900 mm

Length as per rule 1200 mm Pitch of stays 400 x 300 mm Are stays fitted with nuts or riveted over fitted with nuts

Diameter of stays over thread 42 mm Working pressure of back plate by rules 6.3 kg/cm<sup>2</sup>Tube Plates: Material { front P. M. Steel Tensile strength { 35-41 kg/cm<sup>2</sup> Thickness { 20 mm Mean pitch of stay tubes in nests 312 x 358 mm

If comprising shell, Dia. as per rule { front Pitch in outer vertical rows { 104 mm Dia. of tube holes FRONT { stay 84 mm BACK { stay 79 mm

Is each alternate tube in outer vertical rows a stay tube Working pressure by rules { front 5.1 kg/cm<sup>2</sup> back 5.6

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder at centre

Length as per rule

Distance apart

No. and pitch of stays in each

Working pressure by rule

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Foundation

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**Crown stays:** Material                      Tensile strength                      Diameter { at body of stay,                      or over threads                       
 No. of threads per inch                      Area supported by each stay                      Working pressure by rules                       
**Screw stays:** Material P. M. Steel Tensile strength 34-40 kg/cm<sup>2</sup> Diameter { at turned off part, 38 Z or over threads 42 Z No. of threads per inch 9  
 Area supported by each stay 400 x 300 Z Working pressure by rules 6 kg/cm<sup>2</sup> Are the stays drilled at the outer ends no  
**Tubes:** Material P. M. Steel External diameter { plain 76 Z stay 76 Z Thickness { 4 Z 7 Z  
 No. of threads per inch 9 Pitch of tubes 104 Z Working pressure by rules 17.5 kg/cm<sup>2</sup>  
**Manhole Compensation:** Size of opening in shell plate 430 x 540 Z Section of compensating ring 650 x 760 x 20 Z No. of rivets and diameter  
 of rivet holes 44 rivets of 20 Z Outer row rivet pitch at ends 90 Z Depth of flange if manhole flanged 100 Z  
**Uptake:** External diameter                      Thickness of uptake plate                       
**Cross Tubes:** No.                      External diameters {                      Thickness of plates                     

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with yes

The foregoing is a correct description,

Deutsche Schiff- und Maschinenbau Aktiengesellschaft  
 Works, Act. Ges. "Weser"  
                     Manufacturer.

Dates of Survey { During progress of work in shops - 1939 March 1-3.8.16.22.28, April 5.25.26 Is the approved plan of boiler forwarded herewith yes  
 while building { During erection on board vessel - May 12.19.24 June 5.7 (If not state date of approval.)  
 Total No. of visits 14

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This Donkey Boiler has been built under Special Survey in accordance with the approved plan, the Purchaser's letter and in conformity with the requirements of the Rules. The materials used in the construction are made at works recognized by the Committee and tested as per Rule. The workmanship is of good quality. This boiler, which is also the steam container of the two La Mont Boilers, is eligible in my opinion to be recorded in the Soc. Reg Book with 71 lbs of pressure.

Marks on boiler  
 No 214  
 LLOYD'S TEST  
 10 kg/cm<sup>2</sup>  
 WP 5 " "  
 A.C. 26. 4. 39

Thickness of adjoining waters  
 Port valve 40.7 Z  
 port " 40.5 Z

Survey Fee mean see Bpt 46 : } When applied for,                      19  
 Travelling Expenses (if any) £ : : } When received,                      19

Committee's Minute                       
 Assigned See KE marks rH.