

REPORT ON BOILERS.

No. 21828

Received at London Office 13 MAR 1936

Port of Hamburg
 Date, First Survey 25th February Last Survey 3rd March 1936
 No. in Survey held at Hamburg (Number of Visits 2)
 on the Construction No 191 "BRALANTA" Tons { Gross Net

By whom built Kockums Mek. Verkstaed A.B. 191 When built 1936
 By whom made Deutsche Werft A.G. Engine No. 589 When made 1936
 Port belonging to _____

Waste Heat LaMont Donkey Boiler.

VERTICAL DONKEY BOILER

By whom made Deutsche Werft A.G. Boiler No. 589 When made 1936 Where fixed ✓
 Manufacturers of Steel
 Tubes: Messrs. Mannesmann-Röhren-Werke, of Remscheid.
 Headers: Messrs. Hlöcknerwerke A.G., of Georg-Marienhütte.
 Total Heating Surface of Boiler 80 m² Is forced draught fitted ✓ Coal or Oil fired exhaust gas fired.
 Name and Description of Boilers 1; Waste Heat LaMont Donkey Boiler Working pressure 12 Kgf/cm²
 Tested by hydraulic pressure to 21.5 Kgf/cm² Date of test 3rd March 1936. No. of Certificate 611.
 Area of Firegrate in each Boiler _____ No. and Description of safety valves to each boiler 1. double. 1 1/2 dia
 Area of each set of valves per boiler { per rule 6.30" Pressure to which they are adjusted 12 Kgf Are they fitted with easing gear ✓
 State whether steam from main boilers can enter the donkey boiler No ✓ Smallest distance between boiler or uptake and bunkers _____
 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 1180 Height 3410 mm.
 Distributor Headers: Solid forged + bored. Material O. H. Steel. Tensile strength 41/47 Kgf/cm² Thickness Ø 110 mm / 70 mm
 No. of Coils: 9. (3 double, 6 quadruple) Thickness of Coils: 26/32 mm Description of riveting: circ. seams long seams W.P. = 19.8 Kgf/cm²
 Dia. of rivet holes in { circ. seams _____ Pitch of rivets _____ Percentage of strength of circ. seams { plate _____ of Longitudinal joint { rivets _____ combined _____
 Working pressure of shell by rules _____ Thickness of butt straps { outer _____ inner _____
 Shell Crown: Whether complete hemisphere, dished partial spherical, or flat _____ Material _____
 Tensile strength _____ Thickness _____ Radius _____ Working pressure by rules _____
 Description of Furnace: Plain, spherical, or dished crown _____ Material _____ Tensile strength _____
 Thickness _____ 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 _____ Working pressure by rule _____
 Thickness of Ogee Ring _____ Diameter as per rule { D _____ Working pressure by rule _____
 Combustion Chamber: Material _____ Tensile strength _____ Thickness of top plate _____
 Radius if dished _____ Working pressure by rule _____ Thickness of back plate _____ Diameter if circular _____
 Length as per rule _____ Pitch of stays _____ Are stays fitted with nuts or riveted over _____
 Diameter of stays over thread _____ Working pressure of back plate by rules _____
 Tube Plates: Material { front _____ Tensile strength { _____ Thickness { _____ Mean pitch of stay tubes in nests _____
 of comprising shell, Dia. as per rule { front _____ Pitch in outer vertical rows { _____ Dia. of tube holes FRONT { stay _____ BACK { stay _____
 Working pressure by rules { front _____ plain _____ BACK { plain _____
 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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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 _____ Tensile strength _____ Diameter ^{at turned off part,} _____ _{or} _____ _{over threads.} No. of threads per inch _____

Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____

Tubes: Material _____ External diameter ^{plain} _____ _{stay} _____ Thickness _____

No. of threads per inch _____ Pitch of tubes _____ Working pressure by rules _____

Manhole Compensation: Size of opening in 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 _____

Uptake: External diameter _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters _____ Thickness of plates _____

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

The foregoing is a correct description.

Manufacturer. _____

Dates of Survey ^{During progress of} work in shops - - } 25th February 1936; 3rd March 1936. Is the approved plan of boiler forwarded herewith yes.
while building ^{During erection on} board vessel - - } _____ (If not state date of approval.)

Total No. of visits 2.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This Waste Heat La Mant Dunkley Boiler has been examined under special survey, the approved plan and letter thereto. The material used in the construction are of good quality and have been tested by the Society's Surveyors. The workmanship is good. This Waste Heat La Mant Dunkley Boiler is eligible in my opinion for notation in the Society's Register Book with D.B. pressure 170 lbs.*

Note: This boiler has been satisfactorily installed & safety valves adjusted vide Memo report No 1495.

Survey Fee ... Am 84.00 : When applied for 11th Mar 36 1936
Travelling Expenses (if any) Am 3.00 : When received, 8.5.36 1936

FRI. 9 OCT 1936

M. J. ...
Engineer-Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned See minute on F.E. report.

