

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*
 on the *Camptenian N^o 191. "BRALANTA"* (Number of Visits *2*)
 Tons { Gross *✓* Net *✓*
 By whom built *Kockums Mek. Verkstads A.B. 191* When built *1936*
 By whom made *Deutsche Werft & G.* Engine No. *✓* When made *✓*
 Boiler No. *589* When made *1936*
 Port belonging to

Vaste Heat La Mont Donkey Boiler.

VERTICAL DONKEY BOILER

By whom made *Deutsche Werft & G.* Boiler No. *589* When made *1936* Where fixed *✓*
 Manufacturers of Steel *Tubes:- Messrs. Mannesmann-Röhren-Werke, of Remscheid.*
Headers:- Messrs. H. Klocknerwerke A. G., of Georg-Marienhütte.
 Total Heating Surface of Boiler *80 m²* Is forced draught fitted *✓* Coal or Oil fired *✓* ~~exhaust gas fired.~~
 No. and Description of Boilers *1; Vaste Heat La Mont Donkey Boiler* Working pressure *12 Kp./cm²*
 Tested by hydraulic pressure to *21.5 Kp./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 Kp.* Are they fitted with easing gear *✓*
 { as fitted *✓ 7.00*
 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 mm* Height *3410 mm.*
 Distributor Headers: *Solid forged + bored.* *41/47 Kp./cm²* Thickness *110 mm / 70 mm*
 Shell plates: Material *O. H. Steel.* Tensile strength *41/47 Kp./cm²* *120 mm / 80 mm*
 No. of Coils: *9. (3 double, 6 quadruple)* Thickness of Coils *3 1/2"* *26/32 mm* *W.P. = 19.8 Kp./cm²*
 Description of riveting: *circ. seams*
 Dia. of rivet holes in { circ. seams { Pitch of rivets { Percentage of strength of circ. seams { plate { of Longitudinal joint { rivets { combined {
 { long. seams {
 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
 { bottom {
 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
 { d {
 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
 { back {
 of comprising shell, Dia. as per rule { front { Pitch in outer vertical rows { Dia. of tube holes FRONT { stay { BACK { stay {
 { back { { plain { plain {
 Is each alternate tube in outer vertical rows a stay tube Working pressure by rules { front { back {
 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 constructed 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 lb.*

*Note: This boiler has been satisfactorily installed & Safety valves adjusted
Kide Malino repat. No 1495.*

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

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

FRI. 9 OCT 1936

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

