

REPORT ON BOILERS.

No. 16834

14 MAR 1931
13 MAR 1930

Received at London Office

Date of writing Report 26 2 1930 When handed in at Local Office 11 3 1930 Port of *Trinidad*
No. in Reg. Book. *Lincoln* Date, First Survey 25. 9. 29 Last Survey 26. 2 1930
on the *MV "MijDRECHT"* (Number of Visits 12) Gross Tons {
Master Built at *Rotterdam* By whom built *Rotterdamsche Droogdok Maatschappij* Yard No. 505 When built 19
Engines made at *Glasgow* By whom made *Harland & Wolff* Engine No. 4265 When made 1930
Boilers made at *Lincoln* By whom made *Babcock & Wilcox, Ltd* Boiler No. 69/192 When made 1930
Nominal Horse Power 653 Owners *Stoomvlyt De Maas* Port belonging to *Rotterdam*

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel *Parkgate & S. Co. Ltd. Appleby Iron Works Ltd.* (Letter for Record)
Total Heating Surface of Boilers 1360 sq. ft. Is forced draught fitted Coal or Oil fired *oil*
No. and Description of Boilers *One, Spencer Monocount, Kirk Patent back Head* Working Pressure 10 Kilo/CM \checkmark
Tested by hydraulic pressure to 263 lb. Date of test 7/2/30 No. of Certificate 286 Can each boiler be worked separately *yes*
Area of Firegrate in each Boiler *none* No. and Description of safety valves to each boiler *one, double, spring loaded*
Area of each set of valves per boiler { per Rule 13.2 \checkmark Pressure to which they are adjusted 142 \checkmark Are they fitted with easing gear *yes*
as fitted 19.24 *not adjusted*
In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *no*
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 6'-6" \checkmark Length 10'-6" Shell plates: Material *S. K. steel* Tensile strength 28/32 Tons
Thickness 19/32 Are the shell plates welded or flanged *no* 3/32 Description of riveting: circ. seams { end *S. K. Lap*
long. seams *D. R. D. B. straps* Diameter of rivet holes in { circ. seams 13/32 \checkmark 5 1/32 \checkmark inter. *D. K. Lap*
Pitch of rivets { 3" \checkmark 2.18 19 2.19 \checkmark
Percentage of strength of circ. end seams { plate 52.8 \checkmark 66.8 \checkmark rivets 52.75 \checkmark 68.0 \checkmark
Percentage of strength of longitudinal joint { plate 76 \checkmark rivets 81.4 \checkmark combined Working pressure of shell by Rules 169 lb \checkmark
Thickness of butt straps { outer 19/32 \checkmark inner 19/32 \checkmark No. and Description of Furnaces in each Boiler *none*
Material Tensile strength Smallest outside diameter
Length of plain part { top Thickness of plates { crown Description of longitudinal joint
bottom Thickness of plates { bottom Working pressure of furnace by Rules
Dimensions of stiffening rings on furnace or c.c. bottom
End plates in steam space: Material *S. K. steel* Tensile strength 26/30 Tons Thickness 7/8" \checkmark Pitch of stays 14" x 9"
How are stays secured *double nuts & washers* Working pressure by Rules 221 lb \checkmark
Tube plates: Material { front *S. K. steel* Tensile strength { 26/30 Tons Thickness { 7/8" \checkmark
back Thickness { 7/8" \checkmark
Mean pitch of stay tubes in nests 10" \checkmark Pitch across wide water spaces 16" 13" Working pressure { front { 277 lb \checkmark
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 Rules
Combustion chamber plates: Material
Tensile strength Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over
Working pressure by Rules Front plate at bottom: Material Tensile strength
Thickness Lower back plate: Material Tensile strength Thickness
Pitch of stays at wide water space Are stays fitted with nuts or riveted over
Working Pressure Main stays: Material Tensile strength
Diameter { At body of stay, No. of threads per inch Area supported by each stay
Over threads
Working pressure by Rules Screw stays: Material Tensile strength
Diameter { At turned off part, No. of threads per inch Area supported by each stay
Over threads

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 *10 w.g.*
 Tubes: Material *L.S.* External diameter *Plain 1 1/2"* Thickness *1/4" 8 3/16"* No. of threads per inch *9*
 Pitch of tubes *2 1/2"* Working pressure by Rules *277 lbs.* Manhole compensation: Size of opening in shell plate *16" x 12"* Section of compensating ring *none* No. of rivets and diameter of rivet holes *none*
 Outer row rivet pitch at ends *Depth of flange if manhole flanged 3 1/2" from top* Steam Dome: Material *L.S. Steel*
 Tensile strength *26/30 Tm* Thickness of shell *3/8"* Description of longitudinal joint *L.H. J. B. stays*
 Diameter of rivet holes *1 1/16"* Pitch of rivets *2"* Percentage of strength of joint *Plate 65.6 Rivets 75.8*
 Internal diameter *2'-0"* Working pressure by Rules *258 lbs.* Thickness of crown *1/2"* No. and diameter of stays *none* Inner radius of crown *2'-0"* Working pressure by Rules *179 lbs.*
 How connected to shell *riveted* Size of doubling plate under dome *2'-11 3/8" x 7/8"* Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell *1" x 3.64*

Type of Superheater *Manufacturers of Tubes*
 Number of elements *Material of tubes* Internal diameter and thickness of tubes
 Material of headers *Tensile strength* Thickness *Can the superheater be shut off and the boiler be worked separately*
 Area of each safety valve *Is a safety valve fitted to every part of the superheater which can be shut off from the boiler*
 Rules *Are the safety valves fitted with easing gear* Working pressure as per tubes *Pressure to which the safety valves are adjusted* Hydraulic test pressure: *and after assembly in place* Are drain cocks or valves fitted to free the superheater from water where necessary

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

Request form attached.

The foregoing is a correct description,

J. H. Lewis (Linc. Branch) Manufacturer.

Dates of Survey *During progress of work in shops - - 1929 Sep 25 Oct 9. 18. 28. Dec 18. 23. 1930 Jan 29. 15. 31. Feb 7. 26*
 while building *During erection on board vessel - - -*

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) *yes*

Total No. of visits *12*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been built under special survey and in accordance with the Rules and approved plans as per Secty's letter of the 20th/9/29 & 3rd/10/29. The materials and workmanship are good.*

Survey Fee ... £ 9 : 0 : 0 When applied for, *24. 2. 30*
 Travelling Expenses (if any) £ 1 : 18 : 6 When received, *14. 3. 30*

W. H. K. Kinsley
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 24 MAR 1931

TUE. 6 OCT 1931

Assigned

See F.C. Rpt.



© 2021

Lloyd's Register Foundation