

pt. 5a.

REPORT ON BOILERS.

No. 23568

Received at London Office

Date of writing Report 16-7-1960 When handed in at Local Office 16-7-1960 Port of Amsterdam

No. in Survey held at Amsterdam Date, First Survey 11th February 1960 Last Survey 2nd July 1960

(Number of Visits 13) Tons Gross Net

on the

Master Built at Rotterdam By whom built Verolme United Yard No. 633 When built

Engines made at By whom made Engine No. When made

Boilers made at Amsterdam By whom made Hk. Jonker & Zn Boiler No. 589 When made 7-60

Nominal Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Messrs Ruhrstahl AG Henrichshutte - Hattingen - Ruhr (Letter for Record)

Total Heating Surface of Boilers 290 m² Is forced draught fitted - Coal or Oil fired Exhaust gas boiler

No. and Description of Boilers one exhaust gas Working Pressure 200 lb sq in

Tested by hydraulic pressure to 350 lb sq in Date of test 27th June 1960 No. of Certificate 663 Can each boiler be worked separately -

Area of Firegrate in each Boiler - No. and Description of safety valves to each boiler will be fitted at the Yard

Area of each set of valves per boiler { per Rule - as fitted - Pressure to which they are adjusted - Are they fitted with easing gear.

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

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 1964 mm Height 4894 mm Shell plates: Material SM steel 17 Mn 4 Tensile strength 55,5 - 56,0 kg/mm²

Thickness 18 mm Are the shell plates welded or flanged welded Description of riveting: circ. seams { end - inter -

Have all the requirements of the Rules for Class I vessels been complied with: yes.

long. seams - Diameter of rivet holes in { circ. seams - long. seams - Pitch of rivets { -

Percentage of strength of circ. end seams { plate - rivets - Percentage of strength of circ. intermediate seam { plate - rivets -

Percentage of strength of longitudinal joint { plate - rivets - Working pressure of shell by Rules

Thickness of butt straps { outer - inner - No. and Description of Furnaces in each Boiler Exhaust gas boiler

Material - Tensile strength - Smallest outside diameter -

Length of plain part { top - bottom - Thickness of plates { crown - bottom - Description of longitudinal joint -

Dimensions of stiffening rings on furnace or c.c. bottom - Working pressure of furnace by Rules

End plates in steam space: Material - Tensile strength - Thickness - Pitch of stays -

How are stays secured - Working pressure by Rules

Tube plates: Material lower } SM steel 17 Mn 4 Tensile strength 55,5 - 55,8 kg/mm² Thickness 18 mm

Mean pitch of stay tubes in nests 200 mm x 256 mm Pitch across wide water spaces - Working pressure { 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 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

Working pressure by Rules Screw stays: Material - Tensile strength -

Diameter { At turned off part - No. of threads per inch - Area supported by each stay

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.....
Mild steel to BS 3059/1 ✓ External diameter { Plain..... 76 mm ✓ Thickness..... 4 mm ✓
Tubes: Material..... Stay..... 76 mm ✓ No. of threads per inch..... expended and
Pitch of tubes..... 100 mm ✓ Working pressure by Rules..... thickness 21 mm ✓ Manhole compensation: Size of opening in
shell plate 410 x 510 mm ✓ Section of compensating ring 410x510x120 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 diameter of
stays..... Inner radius of crown..... Working pressure by Rules.....
How connected to shell..... Size of doubling plate under dome..... Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell.....

Type of Superheater no superheater Manufacturers of { Tubes..... Steel forgings..... Steel castings.....
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..... 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 pressure as per
Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test pressure:
tubes..... forgings and castings..... 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 22 inclusive for boilers been complied with..... yes

The foregoing is a correct description,

Thermodyne
A. H. Hume

Manufacturer.

Dates of Survey { During progress of work in shops - - }
while building { During erection on board vessel - - - }

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

11-3-19

Total No. of visits.....

Is this Boiler a duplicate of a previous case..... no If so, state Vessel's name and Report No.....

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built according to approved plans, Secretary letters and Society Rules

Materials tested as required and workmanship found good.

In my opinion this boiler merits the approval of the Committee.

Turnover tax f. 19,92
Survey Fee £ " 405,--
Travelling Expenses (if any) £ " 73,--

When applied for..... 20/7/1960
When received..... 19.....

Engineer Surveyor to Lloyd's Register of Shipping.
C. van der Linden.

Committee's Minute..... FRIDAY - 2 DEC 1960

Assigned.....

See Rpt. 1.



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