

REPORT ON BOILERS.

No. 55242.

Received at London Office

13 NOV 1948

Date of writing Report 10 When handed in at Local Office 11 NOV 1948 Port of HULL.

No. in Reg. Book. Survey held at HULL. Date, First Survey 20.9.48 Last Survey 29.10.1948

52369 on the S.S. "BALTRADER". (Number of Visits 19) Gross 1846 Tons Net 990

Master - Built at Hamburg By whom built Deutsche Werft A.G. Yard No. - When built 1945

Engines made at Hamburg By whom made Ottensener Eisenwerk A.G. Engine No. - When made 1945

Boilers made at - By whom made - Boiler No. - When made -

Nominal Horse Power M.H.P. 318 Owners United Baltic Corporation Ltd. Port belonging to London

S.13/ Water tube and
MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.
(Combined)

Manufacturers of Steel - (Letter for Record -)

Total Heating Surface of Boilers 275 (blr. 3660, Spt. 1615) Is forced draught fitted Yes Coal or Oil fired coal

No. and Description of Boilers 2 Capus Type. Working Pressure 216 lbs.

Tested by hydraulic pressure to - Date of test - No. of Certificate - Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 46.3 sq. ft. per boiler. No. and Description of safety valves to each boiler 2 - Spring Loaded.

Area of each set of valves per boiler per Rule - as fitted 14 sq. in. Pressure to which they are adjusted 225 lbs. Are they fitted with easing gear Yes

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 11" Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating 21" Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers 12'9" Length 13'0" Shell plates: Material steel Tensile strength -

Thickness 1.1/4" Are the shell plates welded or flanged - Description of riveting: circ. seams end double riveted inter. -

Treble riveted long. seams Double butt strap. Diameter of rivet holes in circ. seams - Pitch of rivets 4 1/2" 110" 4 1/2" 210"

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 combined - Working pressure of shell by Rules -

Thickness of butt straps outer 1.1/4" inner 1.1/4" No. and Description of Furnaces in each Boiler 3 corrugated

Material steel Tensile strength - Smallest outside diameter 36.11/16" ✓

Length of plain part top - bottom - Thickness of plates crown 5/8" bottom 5/8" Description of longitudinal joint welded. ✓

Dimensions of stiffening rings on furnace or c.c. bottom none Working pressure of furnace by Rules -

End plates in steam space: Material steel Tensile strength - Thickness 2.1/16" Pitch of stays 17 1/4 x 16"

How are stays secured screwed with external nuts & washers. Working pressure by Rules -

Tube plates: Material front steel back -do- Tensile strength - Thickness 1.1/16" 1.1/16" ✓

Mean pitch of stay tubes in nests 8 1/4" x 8 1/4" Pitch across wide water spaces 14 1/4" 360" 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 steel Tensile strength -

Thickness 1.1/16" Lower back plate: Material steel Tensile strength - Thickness 1 1/16" -

Pitch of stays at wide water space - Are stays fitted with nuts or riveted over -

Working Pressure - Main stays: Material steel Tensile strength -

Diameter At body of stay, 3", 3.3/8" or 3.5/16", 3 3/4". No. of threads per inch 6 & 9 Area supported by each stay

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

Diameter At turned off part, - or - 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 -
Tubes: Material Steel External diameter { Plain 3" Stay 3" Thickness { 5/16" 3/8" No. of threads per inch 9
Pitch of tubes 4 1/8" x 4 1/8" Working pressure by Rules - Manhole compensation: Size of opening in
shell plate 12 1/2" x 16 1/2" Section of compensating ring 7 1/2" x 1 1/4" No. of rivets and diameter of rivet holes 26 - 1.7/16"
Outer row rivet pitch at ends 6 3/4" Depth of flange if manhole flanged - Steam Dome: Material steel
Tensile strength - Thickness of shell 5/8" Description of longitudinal joint -
Diameter of rivet holes - Pitch of rivets - Percentage of strength of joint { Plate Rivets -
Internal diameter 2' 6 1/4" Working pressure by Rules - Thickness of crown 18" 5/8" No. and diameter of
stays - Inner radius of crown 25 1/4" Working pressure by Rules -
How connected to shell double riveted. Size of doubling plate under dome - Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell 4 1/2" 18" - 4 1/4"

Type of Superheater Smoke tube type. Manufacturers of { Tubes Steel forgings Steel castings
Number of elements 35 Material of tubes steel Internal diameter and thickness of tubes 11/16", 5/32"
Material of headers steel Tensile strength - Thickness - Can the superheater be shut off and
the boiler be worked separately Yes Is a safety valve fitted to every part of the superheater which can be shut off from the boiler Yes
Area of each safety valve 1 1/2 sq. in. Are the safety valves fitted with casing gear Yes Working pressure as per
Rules - Pressure to which the safety valves are adjusted 216 lb/sq. in. 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 Yes
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 - - - Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - - Total No. of visits

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. "BALTONIA" Grimsby 23140.

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

Water Tube Section (each boiler).
4 steam drums: Internal dia. 18 1/2", thickness 13/16", flanged at ends and E.W. to boiler end plate.
Water tubes: Tube holes dia. 2.1/16", pitch 4.3/16", Ext. dia. 2", thickness 1/4".
Number 198.
Water Drums: 2 in number similar scantlings to steam drums.
The boilers have been examined in their entirety together with their mountings and found or placed in good condition.
Boilers afterwards examined under steam and the safety valves adjusted to 216 lb/sq. in.

Survey Fee ... £ : : When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

L. Tait Williams
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute THURS 23 DEC 1948

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