

REPORT ON BOILERS.

No. 98399

APR 10 1940

Received at London Office

Writing Report 19 When handed in at Local Office 9/4/1940 Port of NEWCASTLE-on-TYNE.
 Survey held at Wallsend on Tyne Date, First Survey 31st Aug/1939 Last Survey Apr 2nd 1940
 on the SS. 'GLENWOOD'
 Sunderland By whom built Sir J Laing & Sons Ltd Yard No. 728 When built 1940-4
 made at Wallsend By whom made N.E. Marine Eng Co (1938) Ltd Engine No. 2939 When made 1940
 By whom made " Boiler No. 2939 When made 1940
 Owners J.I. Jacobs & Co Ltd Port belonging to London

WATER TUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles Ltd. (Letter for Record S.
 Heating Surface of Boilers 1235 Is forced draught fitted NO Coal or Oil fired Coal
 and Description of Boilers 1 Aux SB. Working Pressure 220 lbs
 tested by hydraulic pressure to 380 Date of test 19.1.40 No. of Certificate 836 Can each boiler be worked separately ✓
 of Firegrate in each Boiler 34 1/2 No. and Description of safety valves to each boiler 1 Double
 of each set of valves per boiler { per Rule 6.6 Pressure to which they are adjusted 225 Are they fitted with easing gear YES
 as fitted 7.96
 use of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓
 least distance between boilers or uptakes and bunkers or woodwork ✓ Is oil fuel carried in the double bottom under boilers NO
 least distance between shell of boiler and tank top plating 2'-3" Is the bottom of the boiler insulated YES.
 gtest internal dia. of boilers 11'-9 23/32 Length 10'-6" Shell plates: Material S Tensile strength 29-33
 thickness 1 9/16 Are the shell plates welded or flanged NO Description of riveting: circ. seams { end DR
 seams T.R. D.B.S (5 rivets) Diameter of rivet holes in { circ. seams 1 3/16 Pitch of rivets { 3 1/2" inter. ✓
 { long. seams 1 3/16
 Percentage of strength of circ. end seams { plate 66 Percentage of strength of circ. intermediate seam { plate ✓
 { rivets 44
 Percentage of strength of longitudinal joint { plate 85.6
 { rivets 86.2
 { combined 88.7
 thickness of butt straps { outer 7/8 No. and Description of Furnaces in each Boiler 2 cf.
 { inner 1" Tensile strength 26-30 Smallest outside diameter 3-5 17/32
 Material S Thickness of plates { crown 4/16 Description of longitudinal joint weld.
 { bottom ✓
 dimensions of stiffening rings on furnace or c.c. bottom ✓
 and plates in steam space: Material S Tensile strength 26-30 Thickness 1 1/16 Pitch of stays 15 14 1/4 x 15 7/8
 how are stays secured Double Nuts Tensile strength 26-30 Thickness 1 1/16 13 1/6
 tube plates: Material { front S Tensile strength 26-30 Thickness 1 1/16 13 1/6
 { back ✓
 lean pitch of stay tubes in nests 10-35 Pitch across wide water spaces 14 1/4 x 9
 ladders to combustion chamber tops: Material S Tensile strength 28-32 Depth and thickness of girder
 at centre 9 1/8 x 1 1/32 Dble. Length as per Rule 31.9 Distance apart 11 3/4 No. and pitch of stays
 in each 3 @ 7 1/2 Combustion chamber plates: Material S Tensile strength 26-30 Thickness 1 1/16
 Tensile strength 26-30 Thickness: Sides 29/32 Back 29/32 Top 29/32 Bottom 29/32
 Pitch of stays to ditto: Sides 10 x 9 7/8 Back 9 3/4 x 9 7/8 Top 11 3/4 x 7 1/2 Are stays fitted with nuts or riveted over nuts
 Front plate at bottom: Material S Tensile strength 26-30 Thickness 1 1/16
 Thickness 1 1/16 Lower back plate: Material S Tensile strength 26-30 Thickness 1 1/16
 Pitch of stays at wide water space 14 1/2 x 9 7/8 Are stays fitted with nuts or riveted over nuts
 Main stays: Material S Tensile strength 28-32
 Diameter { At body of stay, 2 3/8 No. of threads per inch 6
 { Over threads S Tensile strength 26-30
 Screw stays: Material S
 Diameter { At turned off part, 1 7/8 No. of threads per inch 9
 { Over threads

Are the stays drilled at the outer ends no. Margin stays: Diameter { At turned off part, 2" or Over threads 2"

No. of threads per inch 9

Tubes: Material SD. STEEL External diameter { Plain 3 1/4" Stay 3 1/4" Thickness { 8 SW 4 3/8" 7/16" 1/4" No. of threads per inch 9

Pitch of tubes 4 1/2" x 4 1/2" 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 3 7/8" 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 ✓ Thickness of crown ✓ No. and diameter of stays ✓ Inner radius of crown ✓

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 ✓ 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 ✓

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,
THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.
John Natt Manufacturer.

Dates of Survey { During progress of work in shops - - } See Machinery Report Are the approved plans of boiler and superheater forwarded herewith Yes. (If not state date of approval.)

while building { During erection on board vessel - - } See Machinery Report Total No. of visits ✓

Is this Boiler a duplicate of a previous case yes. If so, state Vessel's name and Report No. BEECHWOOD. No. 98187

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Auxiliary Boiler has been made & installed under special survey in accordance with the approved Plan & the requirements of the Rules.

The materials & workmanship are good & the boiler proved satisfactory under working conditions & hydraulic test.

Survey Fee ... £ : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

Re. Moffatt
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 12 APR 1940

Assigned

See Mtd. 7.C. 32839



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Foundation