

pt. 5b.

REPORT ON BOILERS.

No. 16269

19 MAR 1929

Received at London Office

Date of writing Report 18-3-1929 When handed in at Local Office 18-3-1929 Port of Grimsby
No. in Survey held at Reg. Book Lincoln Date, First Survey 5-2-29 Last Survey 8-3-1929
(Number of Visits 6) Tons { Gross
on the Net

Built at Kobe By whom built Mitsubishi Zosen Kaisha Ltd. Yard No. 161 When built
Engines made at By whom made Engine No. When made
Boilers made at Lincoln By whom made Babcock & Wilcox Ltd. Boiler No. 73/4598 When made 1929
Owners Port belonging to

VERTICAL DONKEY BOILER.

Made at Lincoln By whom made Babcock & Wilcox Ltd. Boiler No. 73/4598 When made 1929 Where fixed
Manufacturers of Steel Parkgate S.S. Co. Ltd.

Total Heating Surface of Boiler 200 sq. ft. Is forced draught fitted - Coal or Oil fired Oil fired

No. and Description of Boilers one Blackston Chimble tube, water heater Working pressure 100 lb

Tested by hydraulic pressure to 200 lb. Date of test 8th March 1929 No. of Certificate 260

Area of Firegrate in each Boiler - No. and Description of safety valves to each boiler Two 1 1/2" dia. spring loaded

Area of each set of valves per boiler { per rule 2.60 as fitted 3.534 Pressure to which they are adjusted - Are they fitted with easing gear

State whether steam from main boilers can enter the donkey boiler - Smallest distance between boiler or uptake and bunkers

or woodwork - 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 3'-9 3/4" Height 7'-4"

Shell plates: Material S. L. steel Tensile strength 28/32 T. Thickness 13/32

Are the shell plates welded or flanged - Description of riveting: circ. seams top S.K. long. seams D.K. Lap

Dia. of rivet holes in { circ. seams 13/16 Pitch of rivets 1 7/8 x 2 5/8 Percentage of strength of circ. seams { plate 57269 rivets 56980 of Longitudinal joint { plate 69 rivets 80 combined 79

Working pressure of shell by rules 160 lb Thickness of butt straps { outer inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat flat Material S. L. steel

Tensile strength 26/30 T Thickness 9/16 Radius - Working pressure by rules 228 lb

Description of Furnace: Plain, spherical, or dished crown dished Material S. L. steel Tensile strength 26/30 T.

Thickness 3/8" External diameter { top 2'-10 1/4" Length as per rule 4'-4 1/4" Working pressure by rules 119 lb

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 149 lb

Thickness of Ogee Ring Diameter as per rule { D a Working pressure by rule

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 back Tensile strength { Thickness { Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule { front back Pitch in outer vertical rows { Dia. of tube holes FRONT { stay plain BACK { stay 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 _____

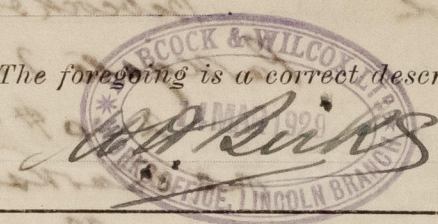
Uptake: External diameter _____ Thickness of uptake plate _____

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, _____

Annual Survey Request



Manufacturer.

Dates of Survey { During progress of work in shops - 1929 Feb 5, 13, 22, 26 Mar 1, 8. } Is the approved plan of boiler forwarded herewith (If not state date of approval.) yes

while building { During erection on board vessel - - } Total No. of visits 6

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The materials & workmanship are good. This boiler has been built under special survey and is accordance with the Rules and approved plan.

Survey Fee ... £ 4 : 4 : When applied for, 13. 3. 1929

Travelling Expenses (if any) £ : 18/- : When received, 30. 4. 1929

Committee's Minute Assigned See Note p. 6 of No 6658

WED. 11 JUN 1930
FRI. 10 OCT 1930
FRI. 5 DEC 1930
TUE. 13 JAN '31
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