

## REPORT ON BOILERS.

No. 17054

13 AUG 1930

Received at London Office 15 NOV 1930

Date of writing Report 12-8-30 When handed in at Local Office 12-8-30 Port of Grimsby

No. in Survey held at Lincoln Date, First Survey 11-7-30 Last Survey 1-8-30  
Reg. Book 90508 Sub. on the Tw. Se. 'F.H. BEDFORD JR.' (Number of Visits 9) Gross 11952.  
Tons Net 6831.Built at Haverthwaite By whom built Furness Shipbuilding Co Ltd Yard No. 176 When built 1930  
Engines made at Kiel By whom made Fried. Krupp Engine No. 382/8 When made 1930  
Boilers made at Lincoln By whom made Babcock & Wilcox Ltd Boiler No. 73/4615-16 When made 1930  
Owners Baltic American Petroleum Import Co. Ltd. Port belonging to Danzig

## VERTICAL DONKEY BOILER.

Made at Lincoln By whom made Babcock &amp; Wilcox Ltd Boiler No. 73/4615-16 When made 1930 Where fixed E.R. 7th bulkhead.

Manufacturers of Steel Parkgate Works Ltd. Frodingham 1st St. to Le. Copas &amp; Turner.

Total Heating Surface of Boiler 270 ft<sup>2</sup> Is forced draught fitted Coal or Oil fired Fuel gas

No. and Description of Boilers Two flueless Patent Waste Heat Working pressure 100 lbs

Tested by hydraulic pressure to 200 lbs Date of test 73/4615-16 - 31-7-30 No. of Certificate 299  
4616-17 - 1-8-30 300

Area of Firegrate in each Boiler none No. and Description of safety valves to each boiler Two spring loaded each 2" dia

Area of each set of valves per boiler { per rule 3.6 Pressure to which they are adjusted 105 lbs Are they fitted with easing gear yes  
as fitted 6.25

State whether steam from main boilers can enter the donkey boiler No. Smallest distance between boiler or uptake and bunkers

or woodwork distant 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 5'-0" Height 9'-2 1/8"

Shell plates: Material S. K. steel Tensile strength 28/32 T Thickness 7/16"

Are the shell plates welded or flanged 40 Description of riveting: circ. seams { CR LK Lap inter. CR LK Lap long. seams CR LK Lap

Dia. of rivet holes in { circ. seams 13/16 Pitch of rivets { 1 7/8 x 2 1/8 Percentage of strength of circ. seams { plate 57.4 rivets 52.4 of Longitudinal joint { plate 69.4 rivets 73.0  
long. seams 13/16 2.66 combined

Working pressure of shell by rules 134 lbs. Thickness of butt straps { outer - inner -

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

Tensile strength 26/30 T Thickness 9/16" Radius 4'-6" Working pressure by rules 122.7 lbs

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

Thickness 13/16 External diameter { top 4'-5 1/8 bottom 4'-6 1/2 Length as per rule 4'-6 1/2 Working pressure by rules 107 lbs

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

Thickness of Base Ring 2" 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 { front back Thickness { front back Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule { front back Pitch in outer vertical rows { front back 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



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 S. N. steel External diameter ☒ plain 2 3/4" stay 6 2" Thickness ☒ 9 AWG

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 yes

The foregoing is a correct description,

Annual Survey Request

Babcock & Wilcox Manufacturer.

Dates of Survey ☒ During progress of work in shops - 1930 July 11 14 16 18 22 25 29 Aug 1 ☒ Is the approved plan of boiler forwarded herewith (If not state date of approval.) yes

☒ During erection on board vessel - - Total No. of visits 9

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. Palmer S.K. 9 160 Lg. 1000  
Gen. Rpt. No. 17044

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

These boilers have been built under special survey and in accordance with the Rules and approved plan as per Secty's letter 25/6/30.

The materials and workmanship are good.

These boilers have been securely fitted aboard and their safety valves adjusted under steam.

M. H. A. M.A.B.  
5. 11. 30

Survey Fee ... .. £ 8 : 8 : 9 When applied for, 12. 8. 30

Travelling Expenses (if any) £ 3 10 6 When received, 6 Oct 1930

No 4615 35/-  
No 4616 35/-

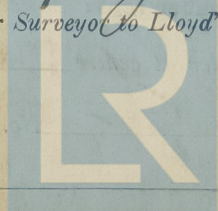
W. G. Kinlay & J. L. Smith  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 21 NOV 1930

Assigned

See Indb JE 14269



Lloyd's Register  
Foundation