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NEWCASTLE-ON-TYNE, No. 105986

Rpt. 5b. 21 NOV 1947

# REPORT ON BOILERS.

No. 238.

21 NOV 1947

IN D.O.

Received at London Office

Date of writing Report 19 \_\_\_\_\_ When handed in at Local Office 19 **NEWCASTLE-ON-TYNE, 5 - MAR 1949.** Port of **NOTTINGHAM.**

No. in Survey held at **Lincoln.** Date, First Survey \_\_\_\_\_ Last Survey \_\_\_\_\_ 19 \_\_\_\_\_

Reg. Book **95136** on the **S.S. SHILLONG** (Number of Visits **NEWCASTLE-ON-TYNE, SEE OVER** Gross **8933.68** Tons Net **4816.33**)

Built at **Newcastle.** By whom built **Vickers-Armstrongs Ltd.** Yard No. **104/955** When built **1948**

Engines made at **BARROW.** By whom made **VICKERS-ARMSTRONGS LTD** Engine No. **955** When made **1948.**

Boilers made at **Lincoln.** By whom made **Ruston & Hornsby Ltd.,** Boiler No. **52704. 52705. 52706.** When made **1947.**

Owners **PENINSULAR & ORIENTAL STEAM NAV. CO. LTD** Port belonging to **LONDON.**

## VERTICAL DONKEY BOILER.

Made at **Lincoln.** By whom made **Ruston & Hornsby Ltd.** Boiler No. **52704. 52705. 52706.** When made **1947** Where fixed **Tween Deck At Fore End of E.R.**

Manufacturers of Steel **Appleby-Frodingham Steel Co. Ltd.**

Total Heating Surface of Boiler **2' - 10 1/2" dia. x 8' - 8 1/2" Is forced draught fitted.** Coal or Oil fired **Exhaust gas.**

No. and Description of Boilers **Three "Melvin" Vertical Thimble Tube Hot Water Silencer Boilers.** Working pressure **25 lbs.**

Tested by hydraulic pressure to **50 lbs.** Date of test **8-10-47. 20.10.47. 27.10.47.** No. of Certificate **110**

Area of Firegrate in each Boiler **-** No. and Description of safety valves to each boiler **1 - 1" BORE SPRING LOADED RELIEF VALVE.**

Area of each set of valves per boiler **per rule. as fitted.** Pressure to which they are adjusted **25 lbs/p.** Are they fitted with easing gear **No**

State whether steam from main boilers can enter the donkey boiler **No.** Smallest distance between boiler or uptake and bunkers or woodwork **Is oil fuel carried in the double bottom under boiler. Is the base of the boiler insulated.** Smallest distance between base of boiler and tank top plating **Largest internal dia. of boiler. Height.**

Shell plates: Material **Steel.** Tensile strength **28-32 Tons.** Thickness **1/4"**

Are the shell plates welded or flanged **No.** If fusion welded, state name of welding firm **-**

Have all the requirements of the Rules for Class I vessels been complied with **-** Description of riveting: circ.seams **end S.R.Lap. inter.**

long. seams **S.R.Lap.** Dia. of rivet holes in **circ. seams. 21/32" long. seams. 21/32"** Pitch of rivets **-** Percentage of strength of circ. seams **plate 62.5% rivet 63.5%**

of Longitudinal joint **plate 70.25. rivets 62.5. combined.** Thickness of butt straps **outer. inner.** Shell Crown: Whether complete hemisphere, dished partial spherical, or flat **Flanged. Material Steel. Tensile strength 26-30 Tons. Thickness 1/2"**

Radius **-** Description of Furnace: **Plain, spherical, or dished crown - Material -**

Tensile strength **-** Thickness **-** External diameter **top. bottom.** Length as per rule **-**

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 **-**

Thickness of Ogee Ring **-** Diameter as per rule **D. d.**

Combustion Chamber: Material **-** Tensile strength **-** Thickness of top plate **-**

Radius if dished **-** 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 **-**

Tube Plates: Material **front. Circular. back. Steel.** Tensile strength **26-30 Tons. Thickness 3/4"** Mean pitch of stay tubes in nests **-**

If comprising shell, Dia. as per rule **front. 2' - 1" inner. Pitch in outer vertical rows 3.3706. Dia. of tube holes FRONT stay. plain. 2" BACK stay. plain.**

Is each alternate tube in outer vertical rows a stay tube **Thimble tubes throughout.**

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 **-**



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