

REPORT ON BOILERS.

No. 88385

Received at London Office

15 APR 1932

When handed in at Local Office

13/4/32

Port of **NEWCASTLE-ON-TYNE.**

Scotswood

Date, First Survey **30/4/30**

Last Survey **13/4/1932**

M.V. "ASHMORE"

(Number of Visits) **5817**
Tons { Gross **5817**
Net **3449**

Built at **Wilmington Quay**

By whom built **Sir W.G. Armstrong Whitworth & Co. Ltd.** Yard No. **1069.** When built **1931.**

Scotswood.

By whom made **Thos. Sir W.G. Armstrong Whitworth & Co. Ltd.** Engine No. **95.** When made **1931.**

Scotswood.

By whom made **Thos. Sir W.G. Armstrong Whitworth & Co. Ltd.** Boiler No. **95.** When made **1931.**

583.

Owners **A.G. ALLEN.** Port belonging to **LONDON.**

ULAR BOILERS ~~MAIN~~ ~~AUXILIARY~~ ~~OR~~ DONKEY.

Steel **S. Colville & Sons Glasgow (Plates) J. Thompson & Sons Wolverhampton (Furnaces)** (Letter for Record **S.**)

Surface of Boilers **2047 sq. ft.** Is forced draught fitted **No.** Coal or Oil fired **oil.**

ion of Boilers **One S.E. Multitubular.** Working Pressure **180 lb/sq. in.**

Hydraulic pressure to **320 lb/sq. in.** Date of test **5.8.30** No. of Certificate **487.** Can each boiler be worked separately **✓**

in each Boiler **✓** No. and Description of safety valves to each boiler **2 Spring Loaded.**

of valves per boiler { per Rule **15.70"** Pressure to which they are adjusted **180 lb/sq. in.** Are they fitted with easing gear **✓**

boilers, state whether steam from main boilers can enter the donkey boiler **✓**

between boilers or uptakes and bunkers or woodwork **✓** Is oil fuel carried in the double bottom under boilers **✓**

between shell of boiler and tank top plating **✓** Is the bottom of the boiler insulated **✓**

dia. of boilers **15'-0 1/2"** Length **10'-6"** Shell plates: Material **Steel** Tensile strength **28-32 tons**

Are the shell plates welded or flanged **No.** Description of riveting: circ. seams { end **D.R. Lap.**

Double Butt Straps Diameter of rivet holes in { circ. seams **1 5/16"** Pitch of rivets { **3.85"**

length of circ. end seams { plate **66.0%.** Percentage of strength of circ. intermediate seam { plate **✓**

length of longitudinal joint { rivets **45.0%.** Working pressure of shell by Rules **183 lb/sq. in.**

combined **85.6%.** No. and Description of Furnaces in each Boiler **3. Morrison Section.**

Steel Tensile strength **26-30 tons** Smallest outside diameter **3'-6 1/2"**

Thickness of plates { crown **1 7/32"** Description of longitudinal joint **Welded.**

ening rings on furnace or c.c. bottom **None** Working pressure of furnace by Rules **183 lb/sq. in.**

in space: Material **Steel** Tensile strength **26-30 tons** Thickness **1 1/4"** Pitch of stays **16 3/4" x 20"**

ured **Nuts & washers inside & outside** Working pressure by Rules **208 lb/sq. in.**

rial { front **Steel** Tensile strength **26-30 tons** Thickness { **1 1/16"**

back **Steel** Tensile strength **26-30 tons** Thickness { **2 5/32"**

tubes in nests **11"** Pitch across wide water spaces **14 1/2"** Working pressure { front **189 lb/sq. in.**

tion chamber tops: Material **Steel** Tensile strength **28-32 tons** Depth and thickness of girder { back **181 lb/sq. in.**

x 1 1/2" Length as per Rule **30"** Distance apart **8 3/8" x 9 1/4"** No. and pitch of stays

@ 9 1/4" Working pressure by Rules **190 lb/sq. in.** Combustion chamber plates: Material **Steel**

26-30 tons Thickness: Sides **1 1/16"** Back **1 1/16"** Top **1 1/16"** Bottom **7/8"**

to: Sides **9" x 9 1/4"** Back **9 1/4" x 8 3/4"** Top **9 1/4" x 9 1/4"** Are stays fitted with nuts or riveted over **nutted.**

by Rules **188 lb/sq. in.** Front plate at bottom: Material **Steel** Tensile strength **26-30 tons**

6" Lower back plate: Material **Steel** Tensile strength **26-30 tons** Thickness **29/32"**

side water space **14 3/4" x 8 3/4"** Are stays fitted with nuts or riveted over **nutted.**

229 lb/sq. in. Main stays: Material **Steel** Tensile strength **28-32 tons**

stay, **3 1/4"** No. of threads per inch **6.** Area supported by each stay **381 sq. ins.**

by Rules **224 lb/sq. in.** Screw stays: Material **Steel** Tensile strength **26-30 tons**

part, **1 3/4"** No. of threads per inch **9.** Area supported by each stay **87.5 sq. ins.**

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Working pressure by Rules 206 lb/p Are the stays drilled at the outer ends No. Margin stays: Diameter 1 7/8" & 2 1/8" pt.
No. of threads per inch 9. Area supported by each stay 107 sq ins + 149 sq ins Working pressure by Rules 199 lb/p + 190 lb/p
Tubes: Material Steel External diameter 3 1/2" Thickness 5/16" + 3/8" No. of threads per inch 9.
Pitch of tubes 4 3/4" Working pressure by Rules Plain 215 lb/p Stay 182 lb/p Manhole compensation: Size of opening
shell plate 21" x 17" Section of compensating ring 21" x 14" No. of rivets and diameter of rivet holes 36 @ 1 5/16"
Outer row rivet pitch at ends 4" + 9 1/8" Depth of flange if manhole flanged 3 3/8" Steam Dome: Material None.
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint
Internal diameter Working pressure by Rules Thickness of crown No. and diameter
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and
of rivets in outer row in dome connection to shell

Type of Superheater None. Manufacturers of Tubes
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off
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 Working pressure as
Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
tubes, 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,

SIR W. & A. ARMSTRONG WHITWORTH & COMPANY (ENGINEERS) LIMITED

Dates of Survey During progress of work in shops - -
while building During erection on board vessel - - -

See inquiry report

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) Yes.

Total No. of visits

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been built under Special Survey & in accordance with the Society's Rules & approved plan. The materials & workmanship are sound & good. The boiler was hydraulically tested as per Rules & found satisfactory. The safety valves were adjusted under steam to the approved working pressure.

Survey Fee ... £ For Fee When applied for, 19
Travelling Expenses (if any) £ See inquiry Rpt When received, 19

L. Pickett.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 19 APR 1932

Assigned See J. C. Rpt



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