

# REPORT ON BOILERS.

No. 77925

TUE. JUN. 3 1924

2 JUN 1924

Received at London Office

of writing Report 10 When handed in at Local Office 19 Port of **NEWCASTLE-ON-TYNE**

Survey held at **Abbeville-on-Tyne** Date, First Survey **Feb 13** Last Survey **May 30 1924**

Book. **Main Boiler No 1033 / FOREMOST 20** (Number of Visits **20**) Gross Tons Net

on the **Abbeville-on-Tyne** Built at **Kalbomme** By whom built **J. Meyer & Co Ltd** When built **1924**

Lines made at **South Shields** By whom made **C. T. Galey & Co Ltd** When made **1919**

Boilers made at **Abbeville-on-Tyne** By whom made **Palmer & Co Ltd** When made **1924**

Registered Horse Power Owners Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Number for record **S.** Total Heating Surface of Boilers **1984 sq ft** Is forced draft fitted **No**

Boilers **One each main** Working Pressure **185 lb** Tested by hydraulic pressure to **328** Date of test **23/5/24**

No. of Certificate **9825** Can each boiler be worked separately **No** Area of fire grate in each boiler **45 sq ft** No. and Description of

Valves to each boiler **2 Spring loaded** Area of each valve **3" 3 dia** Pressure to which they are adjusted **130 lb**

They fitted with easing gear **No** In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Least distance between boilers or uptakes and bunkers or woodwork **27"** Mean dia. of boilers **14'-0"** Length **11'-6"**

Material of shell plates **Steel** Thickness **1 3/8"** Range of tensile strength **28/32 Tons** Are the shell plates welded or flanged **No**

Descrip. of riveting: cir. seams **D.R.L.** long. seams **TRDBS** Diameter of rivet holes in long. seams **1 1/4"** Pitch of rivets **8 3/4"**

Width of butt straps **1'-6 1/2"** Per centages of strength of longitudinal joint **91%** Working pressure of shell by

**188** Size of manhole in shell **16x12** Size of compensating ring **27x31x1 3/8"** No. and Description of Furnaces in each

Boiler **2 Deighton** Material **Steel** Outside diameter **4'-4 1/4"** Length of plain part **top** Thickness of plates **3'-5"**

Description of longitudinal joint **Welded** No. of strengthening rings **1** Working pressure of furnace by the rules **185.2** Combustion chamber

Material **Steel** Thickness: Sides **1/2"** Back **1/2"** Top **1/2"** Bottom **1"** Pitch of stays to ditto: Sides **8 1/2x10** Back **8 1/2x10**

**8 1/2x10** If stays are fitted with nuts or riveted heads **No** Working pressure by rules **192** Material of stays **Steel** Area at

Least part **1 3/4"** Area supported by each stay **80.5** Working pressure by rules **213** End plates in steam space: Material **Steel** Thickness **1 1/8"**

No. of stays **20x20** How are stays secured **TRDWS** Working pressure by rules **196** Material of stays **Steel** Area at smallest part **3 1/2"**

Supported by each stay **400** Working pressure by rules **200** Material of Front plates at bottom **Steel** Thickness **3/2"** Material of

Back plate **Steel** Thickness **3/2"** Greatest pitch of stays **11" x 12"** Working pressure of plate by rules **218** Diameter of tubes **3 1/2"**

No. of tubes **4 3/4x4 3/4** Material of tube plates **Steel** Thickness: Front **3/2"** Back **3/4"** Mean pitch of stays **11.8** Pitch across wide

Spaces **14"** Working pressures by rules **186** Girders to Chamber tops: Material **Steel** Depth and thickness of

at centre **9 1/2x15"** Length as per rule **35"** Distance apart **10"** Number and pitch of Stays in each **32 8 1/4"**

Working pressure by rules **187** Steam dome: description of joint to shell **✓** % of strength of joint **-**

Material **✓** Thickness of shell plates **✓** Material **✓** Description of longitudinal joint **✓** Diam. of rivet holes **✓**

No. of rivets **✓** Working pressure of shell by rules **✓** Crown plates **✓** Thickness **✓** How stayed **✓**

## VERTICAL DONKEY BOILER—

No. Description Manufacturers of steel

By whom made When made Where fixed Working pressure

Tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Description of joint Working pressure of furnace by rules Thickness of furnace crown

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

The foregoing is a correct description,  
**J. Cameron** Manufacturer.

During progress of work in shops -- Feb 13, 22, 25, 27, Mar 4, 7, 12, Apr 18, 24, May 1, 5, 6, 13, 14, 15, 16, 19, 26, 28, 30

During erection on board vessel ---

Total No. of visits

Is the approved plan of main boiler forwarded herewith **Yes**

" " " donkey " " " " " "

W1109-0296



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

This boiler has been built under special survey & the materials & workmanship are good. At completion the boiler was tested by hydraulic pressure to 328 lbs. & found sound & tight. The boiler is stated to be intended for shipment abroad ordered by Messrs The James Dudgeon & Co. of 3 Little George St. Westminster.

Certificate (if required) to be sent to  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £	13-4-0	When applied for.	2 JUN 1924
Special .. .. . £	:	When received.	26. 7. 24
Donkey Boiler Fee .. . £	:		
Travelling Expenses (if any) £	:		

*Shawbottle*  
 Engineer Surveyor to Lloyd's Register of Shipping

JUN 7 APR 1925

Committee's Minute

Assigned *not for classing*  
*Committee*

See *Rob. 26* 14159 a  
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