

# REPORT ON BOILERS.

No. **71628**  
THU. 8 MAY 1919  
MOIC - 3 MAR. 1919

Received at London Office - **NEWCASTLE ON TYNE.**

Port of **NEWCASTLE ON TYNE.**

When handed in at Local Office **20th Dec 1918** Date, First Survey **6th Mar. 1919** Last Survey **25th Apr 1919**

Survey held at **Hebburn on Tyne**

on the **S. S. THISBE**

(Number of Visits) **(S.S. No 182)** Gross **1710** Tons Net **1043**

Built at **South Shields** By whom built **G Remoldson & Co.** When built **1919**

Plans made at **Sunderland** By whom made **MacCall & Pollock** When made **1919**

Drawings made at **Hebburn** By whom made **Palmer Shipbuilding & Dry Dock Co. Ltd.** When made **1918**

Registered Horse Power Owners **569/70** Port belonging to

## WATER TUBULAR BOILERS - MAIN, AUXILIARY OR DONKEYS.

Manufacturers of Steel **Spencer & Sons Ltd**

Total Heating Surface of Boilers **3620 sq ft** Is forced draft fitted **No**

No. and Description of Boilers **Two, Single Ended** Working Pressure **190 lb** Tested by hydraulic pressure to **300 lb** Date of test **5-12-18**

of Certificate **9193** Can each boiler be worked separately **Yes** Area of fire grate in each boiler **52 sq ft** No. and Description of Valves to each boiler **2 Spring Valves** Area of each valve **5.94 sq in** Pressure to which they are adjusted **195 lb**

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

Least distance between boilers or uptakes and bunkers or woodwork **14-3/8" Mean dia. of boilers** Length **10-6"**

Material of shell plates **Steel** Thickness **1 3/16"** Range of tensile strength **29/33 tons** Are the shell plates welded or flanged **No**

Rods **2 R Lap** long. seams **5 rivets** Diameter of rivet holes in long. seams **1 1/4"** Pitch of rivets **5 1/16"**

Propeller **18 3/8"** width of butt straps Per centages of strength of longitudinal joint **88.4** Working pressure of shell by rules **200**

bolts **19-2-19 193 lb** Size of manhole in shell **16" x 12"** Size of compensating ring **14" x 1 3/4"** No. and Description of Furnaces in each boiler **3 Brighton** Material **Steel** Outside diameter **44"** Length of plain part **77"** Thickness of plates **9 1/16"**

Description of longitudinal joint **Welded** No. of strengthening rings **1** Working pressure of furnace by the rules **200** Combustion chamber

Material **Steel** Thickness: Sides **21/32"** Back **21/32"** Top **21/32"** Bottom **1"** Pitch of stays to ditto: Sides **9 x 8 1/2"** Back **9 x 8 1/2"**

If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **203** Material of stays **Steel** Diameter at top **1 1/4"**

Area supported by each stay **375 sq in** Working pressure by rules **214** End plates in steam space: Material **Steel** Thickness **1 1/4"**

How are stays secured **Double nuts** Working pressure by rules **192** Material of stay **Steel** Diameter at smallest part **5/8"**

supported by each stay **375 sq in** Working pressure by rules **225** Material of Front plates at bottom **Steel** Thickness **1 1/32"** Material of back plate **Steel** Thickness **1 5/16"** Greatest pitch of stays **12.5 x 9"** Working pressure of plate by rules **224** Diameter of tubes **3 1/4"**

Material of tube plate **Steel** Thickness: Front **1 1/32"** Back **25/32"** Mean pitch of stays **10 7/8"** Pitch across wide spaces **14"** Working pressures by rules **194 lb** Girders to Chamber tops: Material **Steel** Depth and thickness of girders at centre **8 1/2" x 1 3/4"** Length as per rule **31 1/16"** Distance apart **8"** Number and pitch of Stays in each boiler **Two, 7"**

Working pressure by rules **254 lb** Superheater or Steam chest: how connected to boiler **None** Can the superheater be shut off and the boiler worked **Yes**

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

flue fitted with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear **Yes**

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **These boilers have been built under special survey, the materials & workmanship are of good quality, they are to be fitted on board on the S.S. THISBE.**

Survey Fee **£ 10-13-8** When applied for, **1 Mar 1919**

Travelling Expenses (if any) **£** When received, **26 Mar 1919**

Total No. of visits **17**

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

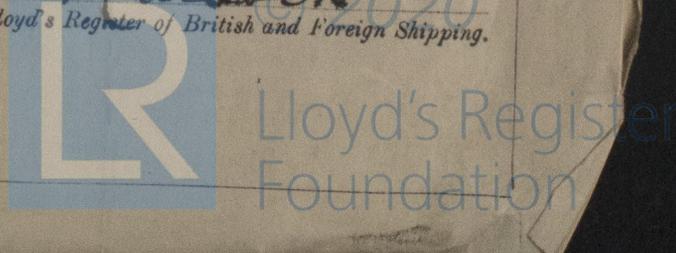
**George Murdoch**  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

TUE. 20 MAY. 1919

Committee's Minute

Signed **See page No 27446**

dated **4-3-1919**



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