

REPORT ON BOILERS.

No. 10553

Received at London Office

WED. DEC. 24. 1919

Writing Report 13.12.19 1919 When handed in at Local Office 16.12.19.1919 Port of MIDDLESBRO'

Survey held at Stockton-on-Tees Date, First Survey 17th Oct. Last Survey 12th Dec. 1919

on the (Number of Visits 11) Gross Tons Net

Built at By whom built When built

made at Northwich By whom made Messrs W. J. Yarwood & Son Ltd When made

made at Stockton By whom made Messrs Riley Bros Ltd (No 5233) When made 1919

rated Horse Power Owners Port belonging to

TITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Messrs J. Spencer & Son Ltd

for record (5) Total Heating Surface of Boilers 615 sq ft Is forced draft fitted No. and Description of

One single ended Working Pressure 140 Tested by hydraulic pressure to 280 Date of test 12.12.19

Certificate 6066 Can each boiler be worked separately Area of fire grate in each boiler 27 sq ft No. and Description of

valves to each boiler Area of each valve Pressure to which they are adjusted

g fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 8'-7" Length 8'-6"

Material of shell plates steel Thickness 5/8" Range of tensile strength 28-32 Are the shell plates welded or flanged no

Material of riveting: cir. seams 2 R. Lap long. seams 2 B-2 Riv Diameter of rivet holes in long. seams 15/16" Pitch of rivets 5 1/2"

Material of plates or width of butt straps 9" x 5/8" 3 Rivets per pitch Per centages of strength of longitudinal joint rivets 89.1 Working pressure of shell by

142 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 1" No. and Description of Furnaces in each

2 plain Material steel Outside diameter 34" Length of plain part top 70 3/4" Thickness of plates crown 19/32 bottom 19/32

Material of longitudinal joint Weld No. of strengthening rings one Working pressure of furnace by the rules 140 Combustion chamber

Material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 19/32" Pitch of stays to ditto: Sides 7 3/4" x 8" Back 8 1/2" x 8 3/4"

8" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 146 Material of stays steel Area at

part 1-45 Area supported by each stay 74 Working pressure by rules 157 End plates in steam space: Material steel Thickness 13/16"

14 How are stays secured nuts & 6 x 5 washers Working pressure by rules 140 Material of stays steel Area at smallest part 3.26

supported by each stay 232 Working pressure by rules 146 Material of Front plates at bottom steel Thickness 1/2" Material of

back plate steel Thickness 13/16" Greatest pitch of stays 13" x 8 3/4" Working pressure of plate by rules 185 Diameter of tubes 3

of tubes 4" x 4" Material of tube plates steel Thickness: Front 13/16" Back 1/2" Mean pitch of stays 9 1/4" Pitch across wide

spaces 13 Working pressures by rules 150 Girders to Chamber tops: Material steel Depth and thickness of

at centre 6" x 1 1/4" Length as per rule 24" Distance apart 7 1/2" Number and pitch of Stays in each 2 @ 8"

Working pressure by rules 167 Steam dome: description of joint to shell none % of strength of joint

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

Rivets Working pressure of shell by rules Crown plates Thickness How stayed

HEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

FOR RILEY-BROS. (MIDDLESBRO) LTD The foregoing is a correct description, Manufacturer.

During progress of work in shops Oct 17-24 Nov 5-11-19 24-27 Dec 1-4-8-12. Is the approved plan of boiler forwarded herewith Yes

During erection on board vessel Total No. of visits 11 Return for duplicate Boiler

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special... is of good material and workmanship and on completion was tested by hydraulic pressure satisfactory results

Fee ... £ 2-2-0 When applied for Monthly 1919

Printing Expenses (if any) £ : : When received, 191

Wm Morrison Engineer Surveyor to Lloyd's Register of Shipping. Lloyd's Register Foundation

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REPORT ON POLTERS

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