

Rpt. 5a.

REPORT ON BOILERS.

SUNDERLAND RPT. No. 27274

No. 10029

Date of writing Report

191

When handed in at Local Office 13.2.18

Received at London Office

THU. 14. FEB. 1918

No. in Survey held at Reg. Book.

Stockton-on-Tees

Port of

Middlesbrough Sld. 15 July 1918.

Date, First Survey

13th Dec^r 16 Last Survey 11th Feb^r 1918.

on the

Steel 35" WULSTY CASTLE".

(Number of Visits 20) (S.S.N. 240)

Tons Gross 3566 Net 2184

Master

E.R. Howe Built at Sunderland

By whom built J. Blumer & Co

When built 1918

Engines made at

Loughborough By whom made

Brush Electrical Eng. Co^{ts}

When made 1918

Boilers made at

Stockton

By whom made J. Hudson & Co^{ts} (N^o 3943)

When made 1918

Registered Horse Power

Owners Lancashire Shipping Co^{ts}

Port belonging to Liverpool

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY.

(Letter for record (S)) Total Heating Surface of Boilers 1131 sq ft

Boilers One single ended Working Pressure 100 Tested by hydraulic pressure to 200 No. and Description of Boilers

No. of Certificate 5862 Can each boiler be worked separately

Safety valves to each boiler two direct spring. Area of fire grate in each boiler 35.8 sq ft

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork 6'-0" Area of each valve 7.07 sq ft

Material of shell plates Steel Thickness 2/32 Range of tensile strength 29-33

Descrip. of riveting: cir. seams Single lap long. seams 3 Riv. lap Diameter of rivet holes in long. seams 15/16

Lap of plates or width of butt straps 6 1/2 Per centages of strength of longitudinal joint rivets 74.9

Rules 101 Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2" x 27/32

Boiler 2 plain Material steel Outside diameter 40 1/2 Length of plain part top 82 bottom 111

Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 113

Plates: Material Steel Thickness: Sides 17/32 Back 17/32 Top 17/32 Bottom 1" Pitch of stays to ditto: Sides 10 1/2" x 8" Back 8 3/4" x 9 1/2"

Top 9 1/2" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 101

Smallest part 1:19 Area supported by each stay 86.2 Working pressure by rules 111

Pitch of stays 17 1/2" x 15" How are stays secured nuts & 6 x 1/2 washers Working pressure by rules 100

Area supported by each stay 258 Working pressure by rules 107

Over back plate steel Thickness 3/4" Greatest pitch of stays 14" x 9 3/4"

Pitch of tubes 4 1/2" x 4 1/4" Material of tube plates steel Thickness: Front 3/4" Back 5/8"

Water spaces 13 3/4" Working pressures by rules 106

Order at centre 6 1/4" x 1 1/4" Length as per rule 27 3/2" Distance apart 9 1/2"

Working pressure by rules 103 Steam dome: description of joint to shell none

Diameter Thickness of shell plates Material Description of longitudinal joint

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

Superheater. none Date of Approval of Plan Tested by Hydraulic Pressure to

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

Is Easing Gear fitted

The foregoing is a correct description, THOMAS SUTTON & CO. LIMITED Manufacturer.

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 20

Is Easing Gear fitted

GENERAL REMARKS

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

Sunderland's Boiler satisfactorily fitted in the vessel

22-5-18

Survey Fee £ 3-15-0

When applied for Monthly A/c

When received 191

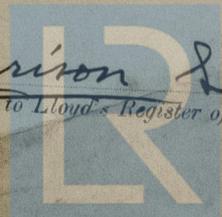
Travelling Expenses (if any) £

Committee's Minute

See Sld ofc rpt No 27274

FRI. 2-AUG. 1918

Wm Morrison & Co. Ltd
Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

005826-005839-0292