

MON. JAN. 26. 1914
No. 9250.
MON. DEC. 29. 1913

Received at London Office

Date of writing Report 23/12/191 When handed in at Local Office 23. 12. 191 Port of MIDLESBRO'

No. in Survey held at Stockton-on-Tees Date, First Survey See "H. Buckley" Last Survey Report. 191

Reg. Book. "Stanley" (Number of Vests) { Gross }
on the Steel screw steamer Stanley (S.S.Nº 534) Tons { Net }

(Master) Built at W. Hartlepool By whom built Irvine's SB & SD Co Lim. When built

Engines made at Stockton By whom made Jones Blair & Co Ltd (Nº 1789) When made

Boilers made at Stockton By whom made Jones Blair & Co Lim. When made

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS — ^{Auxiliary ✓} ~~MAIN, AUXILIARY OR DONKEY.~~ — Manufacturers of Steel *James John Spencer & Sons Ltd*

Letter for record (S) Total Heating Surface of Boilers 1764 sq ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 5.12.13

No. of Certificate 5202 Can each boiler be worked separately ☒ Area of fire grate in each boiler 49.4 sq No. and Description of
safety valves to each boiler 2 direct spring Area of each valve 5.93 sq Pressure to which they are adjusted 185 lb

Are they fitted with casing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler external
Smallest distance between boilers or ~~uptakes~~ and bunkers or ~~woodwork~~ 2'-0" Mean dia. of boilers 14'-3" Length 10'-0"

Material of shell plates steel ✓ Thickness $1\frac{5}{32}$ ✓ Range of tensile strength 28-32 ✓ Are the shell plates welded or flanged no ✓

Descript. of riveting: cir. seams 2 R. lap long. seams 2 B - 3 Riv Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 8 1/4
4 Rivs per pitch rivets 8 7/8

width of butt straps $17\frac{3}{8} \times 1\frac{3}{8}$ Per centages of strength of longitudinal joint

ules 184 Size of manhole in shell 16" x 12" Size of compensating ring 7 1/2 x 1 5/8 No. and Description of Furnaces in each crown 17

boiler 3 Morrison Material steel Outside diameter $42 \frac{17}{16}$ Length of plain part top ✓ Thickness of plates bottom } $\frac{3}{32}$ Combustion chamber

Description of longitudinal joint	<i>Weld</i>	No. of strengthening rings	<i>31</i>	Working pressure of furnace by the rules	<i>191</i>	Combustion chamber
			<i>11"</i>		<i>3"</i>	
						<i>Front Sides 9'8" x 9'</i>
						<i>Rear 8'4" x 9'6"</i>

plates: Material steel ✓ Thickness: Sides $\frac{11}{16}$ ✓ Back $\frac{21}{32}$ ✓ Top $\frac{11}{16}$ ✓ Bottom $\frac{3}{4}$ ✓ Pitch of stays to ditto: Sides $9\frac{1}{4} \times 9$ Back $8\frac{1}{4} \times 9\frac{1}{8}$ ✓

Top $9\frac{1}{2} \times 9$ If stays are fitted with nuts or riveted heads *nuts* ✓ Working pressure by rules *185* Material of stays *steel* ✓ Diameter *1\frac{1}{2}* ✓ Thickness *1\frac{1}{2}* ✓

smallest part 1.99 Area supported by each stay 87.25 Working pressure by rules 204 End plates in steam space: Material steel Thickness 1 1/2
8 x 1 washer Diameter at smallest part 6.66

Pitch of stays $19\frac{1}{2}$ x $19\frac{1}{2}$ How are stays secured *nut & washer* Working pressure by rules *185* Material of stays *steel* Diameter at smallest part *6.66*

Area supported by each stay 361 Working pressure by rules 192 Material of Front plates at bottom steel Thickness 1 1/2 Material of
plates at top 14 2 1/2" Material of plates by rules 187 Diameter of tubes 3 1/4"

Lower back plate steel Thickness 1" Greatest pitch of stays 17 1/2 x 9 1/2 Working pressure of plate by rules 187 Diameter of tubes 2 1/2

Pitch of tubes $4\frac{1}{2} \times 4\frac{5}{8}$ Material of tube plates steel Thickness: Front $\frac{1}{32}$ Back $\frac{1}{16}$ Mean pitch of stays 10.2 Pitch across tube

water spaces 14 1/4" Working pressures by rules 187 Girders to Chamber tops: Material steel Depth and thickness of 2 1/2" Number and pitch of Stays in each 2 @ 9"

girder at centre $7\frac{1}{2} \times 1\frac{1}{2}$ Length as per rule $26\frac{1}{2}$ Distance apart $9\frac{1}{2}$ Number and pitch of stays in each $2 - 12$

Working pressure by rules	191	Superheater or Steam chest; how connected to boiler	none	Can the superheater be shut off without stopping the engine?	yes
		Material	Description of longitudinal joint	Diam. of rivet	

separately	Diameter	Length	Thickness of shell plates	Material	Description of longitudinal joint	
				Diameter of flue	Material of flue plates	Thickness

<i>holes</i>	<i>Pitch of rivets</i>	<i>Working pressure of shell by rules</i>	<i>Diameter of flue</i>	<i>Material of flue plates</i>
		<i>Working pressure by rules</i>		<i>End plates : Thickness</i>
				<i>How stayed</i>

<i>If stiffened with rings</i>	<i>Distance between rings</i>	<i>Working pressure by rules</i>	<i>End plates. Thickness</i>
		<i>Safety valves to superheater</i>	<i>Are they fitted with easing gear</i>

Working pressure of end plates Area of safety valves to superheater Are they placed
The foregoing is a correct description,

The foregoing is a correct description,
FOR BLAIR & CO., LIMITED.
E. W. Matthews Manufacturer

Dates of Survey while building	During progress of work in shops - - During erection on board vessel - - -	See G. H. Dudley Report.

Is the approved plan of boiler forwarded yes ✓

Total No. of visits ✓

building) board vessel - - -)

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. The boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted.

Survey Fee £	:	:	} When applied for,	191
Travelling Expenses (if any) £	:	:		When received,

Wm Morrison
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned

TUE. JAN. 27. 1914

See Memoirs on
Nat. h. 8250

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