

Lloyd's Register of British
and Foreign Shipping,
Glasgow.
29th April 1890.

The Surveyors,
Sunderland.
Gentlemen,

Herewith we forward particulars
of donkey boiler for W. Harkness & Sons
c/o No 154
as requested in your letter of 24th inst

We are,

Yours faithfully,

J. W. Dimmock

2834
MARK ON BOILER.

No. 5718.
LLOYD'S TEST,
180 lbs.
24/1/01-J.W.D.

002320-002329-0005

DONKEY BOILER.

No. and Description One patent Vertical
Made at Annan By whom made Cochran & Co
When made 1901 Where fixed ✓
Working pressure 90 lbs tested by hydraulic pressure to 180 lbs
No. of Certificate 5718 Fire grate area 20 1/2 sq ft Description of safety
valves ✓ No. of safety valves ✓ Area of each ✓
Pressure to which they are adjusted ✓ If fitted with easing gear ✓
If steam from main boilers can enter the donkey boiler ✓ Dia. of donkey
boiler 6.6" Length 14.0" Material of shell plates steel Range of tensile
strength 27 1/2 Thickness 1/2" Description of riveting long seams double
Dia. of rivet holes 3/32" Whether punched or drilled drilled
Pitch of rivets 2 3/4" Lap of plating 4 1/8" Per centage of strength of
joint Rivets 69.1 Thickness of shell crown plates 7/16" Radius of do.
Plates 69.3 3.3" No. of stays to do none Dia. of stays ✓ Radius
furnace Top 2.7 1/2" Bottom ✓ Length of furnace ✓
Thickness of furnace plates 7/32" Description of joint Riveted
Thickness of furnace crown plates 7/32" Stayed by ✓
Working pressure of shell by rules 103 lbs Working pressure of furnace by
rules 101 lbs Dia. of uptake tubes Thickness of uptake plates 1/16" + 13/16"
Thickness of water tubes 1/4"
Is the approved plan of Donkey Boiler forwarded herewith? no

The foregoing is a correct description,

Manufacturer.

Boilers made at Sunderland By whom made Mac Ball & Spence
Registered Horse Power Owners Separation S S Co Ltd Port belonging to
Nom. Horse Power as per Section 28. 131.6 Is Refrigerating Machinery fitted no Is Electric Light fitted

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Lloyd's Register



No. of strength
19 3/32 Top 2
Working pressure
180 lbs
81 lbs Material

Is forced draught
by hydraulic
and Descript
Are they fitted
6 Material
Is safe long.
It straps
hole in shell
13

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Working pressure
Pitch of stays to
Material of stay
Material Steel
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Thickness 3/4
Diameter of tube
Pitch across



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Foundation