

# REPORT ON BOILERS.

No. 23304

Port of Sunderland

FRI. 14 JUN 1907

Received at London Office

No. in Survey held at Sunderland

Date, first Survey 10<sup>th</sup> October, 07 Last Survey 23<sup>rd</sup> May 1907

Reg. Book.

(Number of Visits 64)

on the Steel Levi S. S. Principe di Piemonte

Tons { Gross 5208.99  
Net 3312.74

Master V. Domgiononi Built at Sunderland By whom built Sir J. Laing & Sons L<sup>d</sup> When built 1907

Engines made at Sunderland By whom made G. Clark L<sup>d</sup> when made 1907

Boilers made at Sunderland By whom made Jones Mac Coll & Pollock when made 1906

Registered Horse Power \_\_\_\_\_ Owners Lloyd Sabando Soc Anondi Nav Port belonging to Genoa

## MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel Jones Mac Coll & Pollock L<sup>d</sup>

(Letter for record 5A.) Total Heating Surface of Boilers 932  $\square$  Is forced draft fitted no No. and Description of

Boilers one single ended, cylindrical mult Working Pressure 110 lbs Tested by hydraulic pressure to 220 lbs Date of test 14.12.06

No. of Certificate 2562 Can each boiler be worked separately ✓ Area of fire grate in each boiler 30.2  $\square$  No. and Description of

safety valves to each boiler Two direct spring Area of each valve 7.07  $\square$  Pressure to which they are adjusted 115 lbs

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 12 Mean dia. of boilers 10.6 Length 10.6

Material of shell plates steel Thickness 3/4 Range of tensile strength 28/32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams d.v. lap. long. seams L.v. lap. Diameter of rivet holes in long. seams 1 Pitch of rivets 3.556

Lap of plates or width of butt straps 6 5/8 Per centages of strength of longitudinal joint rivets 75.09 Working pressure of shell by

rules 115.33 lbs Size of manhole in shell 16 x 12 Size of compensating ring 6 x 3/4 plate 71.87 No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 3 7/2 Length of plain part top 6.6 Thickness of plates crown 19/32

Description of longitudinal joint weld No. of strengthening rings ✓ Working pressure of furnace by the rules 119.2 lbs Combustion chamber

plates: Material steel Thickness: Sides 19/32 Back 5/8 Top 19/32 Bottom 7/8 Pitch of stays to ditto: Sides 11 3/4 x 9 Back 10 1/2 x 10 3/4

Top 8 1/2 x 9 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 111 + 119 Material of stays Iron Area

smallest part 1.79 Area supported by each stay 105.75 Working pressure by rules 119 lbs End plates in steam space: Material steel Thickness 7/8

Pitch of stays 17 3/4 x 15 1/2 How are stays secured d.n.w. Working pressure by rules 123.5 lbs Material of stays Iron Area

Area supported by each stay 275.125 Working pressure by rules 112 lbs Material of Front plates at bottom steel Thickness 7/8 Material of

Lower back plate steel Thickness 7/8 Greatest pitch of stays 12 x 10 3/4 Working pressure of plate by rules 203 lbs Diameter of tubes 3 1/2

Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates steel Thickness: Front 7/8 Back 11/16 Mean pitch of stays 9 x 13 1/2 Pitch across wide

water spaces 14 Working pressures by rules 140 lbs Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 6 3/8 x 1 1/2 Length as per rule 29 15/16 Distance apart 8 1/2 Number and pitch of Stays in each 2-9

Working pressure by rules 113 lbs Superheater or Steam chest: how connected to boiler ✓ Can the superheater be shut off and the boiler worked

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

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

If stiffened 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 ✓

## VERTICAL DONKEY BOILER— No. \_\_\_\_\_ Description \_\_\_\_\_ Manufacturers of steel \_\_\_\_\_

Made at \_\_\_\_\_ By whom made \_\_\_\_\_ When made \_\_\_\_\_ Where fixed \_\_\_\_\_

Working pressure \_\_\_\_\_ tested by hydraulic pressure to \_\_\_\_\_ No. of Certificate \_\_\_\_\_ Fire grate area \_\_\_\_\_ 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 \_\_\_\_\_ Length \_\_\_\_\_ Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_ Range of tensile

strength \_\_\_\_\_ Descrip. of riveting long. seams \_\_\_\_\_ Dia. of rivet holes \_\_\_\_\_ Whether punched or drilled \_\_\_\_\_ Pitch of rivets \_\_\_\_\_

Lap of plating \_\_\_\_\_ Per centage of strength of joint Rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_

Radius of do. \_\_\_\_\_ No. of Stays to do. \_\_\_\_\_ Dia. of stays \_\_\_\_\_ Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_

Thickness of furnace plates \_\_\_\_\_ Description of joint \_\_\_\_\_ Working pressure of furnace by rules \_\_\_\_\_ Thickness of furnace crown

plates \_\_\_\_\_ Stayed by \_\_\_\_\_ Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_

The foregoing is a correct description,

Jones Mac Coll & Pollock Ltd Manufacturer.

Please see Machinery report

Is the approved plan of main boiler forwarded herewith \_\_\_\_\_

" " " donkey " "

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Lloyd's Register Foundation

W893-0082

**GENERAL REMARKS**

(State quality of workmanship, opinions as to class, &c. This donkey boiler has been constructed under special survey, the workmanship and materials used are both of good quality. Secured in place above cross bunker between stowholds & tested under steam.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for,
Special ... ..	£	:	:	12.6.1907
Donkey Boiler Fee ...	£	2	2	When received,
Travelling Expenses (if any) £	:	:	:	12.6.1907

*R.W. Coomber. E.J. Stoddart*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

JUN 18 1907

Committee's Minute

Assigned