

## REPORT ON BOILERS.

No. 7818.  
FRI. MAR. 6-1914

Received at London Office

Date of writing Report 24<sup>th</sup> Feb. 1914. When handed in at Local Office.

4 MAR 1914

Port of

DUNDEE

No. in Survey held at

Dundee

Date, First Survey 21<sup>st</sup> Nov. 1912 Last Survey 19<sup>th</sup> February 1914

Reg. Book.

102 on the Donkey Boiler of the STEEL TWIN S.S. "SELENE"

(Number of Visits 14)

Gross  
Tons  
Net

Master

Built at

Dundee

By whom built

Caledon S.B. &amp; E. Co., Ltd. When built 1914

Engines made at

Amsterdam

By whom made

Nederlandsche Fabriek van Werktuigen en  
Spoorweg-Materieel

when made 1914

Boilers made at

Dundee

By whom made

Caledon S.B. &amp; E. Co., Ltd.

when made 1914

Registered Horse Power

Owners Anglo-Saxon Petroleum Co., Ltd.

Port belonging to

Gravenhage

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Colville &amp; Son Ltd.

(Letter for record S.) Total Heating Surface of Boilers 975<sup>sq</sup> ft. Is forced draft fitted no. No. and Description of

Boilers One S.E. cylindrical multitubular Working Pressure 120 lb. Tested by hydraulic pressure to 240 lb. Date of test 15-5-13

No. of Certificate 942 Can each boiler be worked separately Area of fire grate in each boiler 28.5<sup>sq</sup> ft. No. and Description ofsafety valves to each boiler Two—spring loaded Area of each valve 7.07<sup>sq</sup> in. Pressure to which they are adjusted 110 lb. X

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

Smallest distance between boilers on up-takes and bunkers or woodwork 1'-6" INT<sup>5</sup> Mean dia. of boilers 11'-6" Length 9'-6"

Material of shell plates Steel Thickness 3/4" Range of tensile strength 29.4-32 Are the shell plates welded or flanged no.

Descrip. of riveting: cir. seams D.R., L. long. seams D.R., D.B.S. Diameter of rivet holes in long. seams 1" Pitch of rivets 4 1/8"

top or plates on width of butt straps 10 1/8" Per centages of strength of longitudinal joint rivets 75.96 plate 75.75 Working pressure of shell by

rules 132.56 Size of manhole in shell 16" x 12" Size of compensating ring 7 3/4" in. No. and Description of Furnaces in each

boiler Two—plain Material Steel Outside diameter 3'-3 1/2" Length of plain part top 6'-6 1/2" Thickness of plates crown 19/32 bottom 6'-0 1/2"

Description of longitudinal joint Welded. No. of strengthening rings none Working pressure of furnace by the rules 127.5 Combustion chamber

plates: Material Steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 8" x 7 1/2" Back 8" x 7 1/2"

Top 8" x 7 1/2" If stays are fitted with nuts or riveted heads none Working pressure by rules 127.2 Material of stays Steel AREA Diameter at

smallest part 96" Area supported by each stay 60" Working pressure by rules 125 End plates in steam space: Material Steel Thickness 13/16"

Pitch of stays 16" x 16" How are stays secured D.N.s &amp; L.w.s. Working pressure by rules 122 Material of stays Steel AREA Diameter at smallest part 3.26"

Area supported by each stay 256" Working pressure by rules 132.4 Material of Front plates at bottom Steel Thickness 13/16" Material of

Lower back plate Steel Thickness 13/16" Greatest pitch of stays 14 1/2" x 8" Working pressure of plate by rules 171 Diameter of tubes 3 1/4"

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

water spaces 14 1/4" Working pressures by rules 124.8 Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 5 3/4" x 1 1/2" Length as per rule 2'-1 1/2" Distance apart 8" Number and pitch of Stays in each 2 @ 7 1/2"

Working pressure by rules 124 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

The foregoing is a correct description.

J. G. Drue

Manufacturer.

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 14.

Dates of Survey	During progress of work in shops - -	2 1/2, 27 1/2, 5 1/2, 16 1/2, 2 1/2, 4 1/2, 15 1/2, 10 1/2, 23 1/2, 17 1/2
while building	During erection on board vessel - - -	8 1/4, 24 1/4, 10 1/2, 19 1/2

GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

This vessel's donkey boiler has been constructed under special survey in accordance with the approved plan and the British Rules.

The material and workmanship are of good description.

\* The safety valves had been adjusted by the Dutch Authorities and their setting was not interfered with.

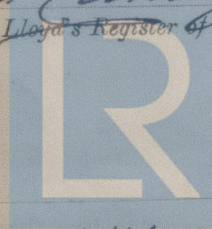
Survey Fee { L.S.M.R. 11 PER REG. NO. 14. } £ 3 : 5 : 0 When applied for 25<sup>th</sup> Feb. 1914Travelling Expenses (if any) £ : : When received 2<sup>nd</sup> Mar. 1914

Committee's Minute

FRI. SEP. 11. 1914

Assigned

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

Lloyd's Register  
Foundation

W1644-0113