

REPORT ON BOILERS.

No. 7817.

Received at London Office FEB 27 1914

26 FEB 1914 Port of DUNDEE

Date, First Survey 15th Dec. 1912. Last Survey 12th Feb. 1914

(Number of Visits 15) Gross 3110.37 Tons Net 1845.74

Donkey Boilers of the STEEL TWIN S.C. 3 Mst. St. "SEBASTIAN"

BUILDER, Built at Dundee By whom built Caldon M.B. & E. Co., Ltd. When built 1914-2

By whom made Aktibolaget Diesel Motorer when made 1914

By whom made Caldon M.B. & E. Co., Ltd. when made 1914

Owners Lane & Macandrew Port belonging to London

MANUFACTURERS OF STEEL {Wm. Beardmore & Co., Ltd. Daniel Colville & Son, Ltd.}

MAIN, AUXILIARY OR DONKEY. Total Heating Surface of Boilers 1732 sq. ft. Is forced draft fitted no. No. and Description of

Cylindrical Multitubular Working Pressure 150 lb. Tested by hydraulic pressure to 300 lb. Date of test 7-12-12

Can each boiler be worked separately yes Area of fire grate in each boiler 30.25 sq. ft. No. and Description of

boiler two-spring loaded Area of each valve 3.98 sq. ft. Pressure to which they are adjusted 150 lb.

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no main boilers

and after bulkhead 24" INT. dia. of boilers 10'-0" Length 10'-6"

Thickness 13/16 Range of tensile strength 25-32 Are the shell plates welded or flanged no.

long. seams D.R., L. long. seams D.R., D.B. Ss. Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 4 1/4"

width of butt straps 10 5/8 Per centages of strength of longitudinal joint rivets 76.67 Working pressure of shell by

Size of manhole in shell 16" x 12" Size of compensating ring 7 1/2" x 1 1/2" No. and Description of Furnaces in each

Material Steel Outside diameter 3'-1 1/4 Length of plain part top Thickness of plates crown 3 1/16 bottom 3 1/16

No. of strengthening rings Working pressure of furnace by the rules 168.9 Combustion chamber

Thickness: Sides 17/32 Back 9/16 Top 17/32 Bottom 17/32 Pitch of stays to ditto: Sides 7 3/4 x 7 Back 8 1/4 x 8

Working pressure by rules 158.9 Material of stays Steel AREA Diameter at

Area supported by each stay 54.25 Working pressure by rules 175.4 End plates in steam space: Material Steel Thickness 25/32

How are stays secured DN's R. Dec. Working pressure by rules 158 Material of stays Steel AREA Diameter at smallest part 3.26

each stay 221.25 Working pressure by rules 153.2 Material of Front plates at bottom Steel Thickness 25/32 Material of

Thickness 25/32 Greatest pitch of stays 14 1/4 x 8 Working pressure of plate by rules 158 Diameter of tubes 3 1/4

Material of tube plates Steel Thickness: Front 25/32 Back 3/4 Mean pitch of stays 9 Pitch across wide

Working pressures by rules 199.2 Girders to Chamber tops: Material Steel Depth and thickness of

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

by rules 150 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

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

Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

Distance between rings Working pressure by rules End plates: Thickness How stayed

Area of safety valves to superheater Are they fitted with easing gear

REMARKS (State quality of workmanship, opinions as to class, &c.) This vessel's donkey boiler

has been constructed under special survey in accordance with

approved plan and the Society's Rules.

The material and workmanship are of good description.

Is the approved plan of boiler forwarded herewith yes.

Total No. of visits 15

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

When applied for 25th Feb. 1914

When received 2/3/14

Expenses (if any) £

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