

REPORT ON BOILERS.

No. 11235
SAT. 26 FEB. 1921

Received at London Office

Date of writing Report 24.2.21. When handed in at Local Office 24 FEB 1921 Port of

No. in Survey held at Birkenhead. Date, First Survey July 1st/1920 Last Survey Feb 21st 1921.
Reg. Book. on the Men Abdala & Mitchell. Vessel No 463. (Number of Visits 23) Gross Tons Net Tons
Master Built at Queensferry, Chester By whom built S. J. Abdala & Mitchell Ltd When built
Engines made at By whom made When made
Boilers made at Birkenhead. By whom made Cammell Laird & Co Ltd When made 1921
Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel The Steel Co of Scotland Ltd The Earl of Dudley's Round Oak Works.

Letter for record S. Total Heating Surface of Boilers 1400 sq ft Is forced draft fitted No. and Description of

Boilers One Cylindrical Multitubular (S.B.) Working Pressure 130 lbs. Tested by hydraulic pressure to 260 lbs. Date of test 19.2.20

No. of Certificate 2149. Can each boiler be worked separately Area of fire grate in each boiler 39 sq ft No. and Description of

safety valves to each boiler 2 in No Spring loaded. Area of each valve 5.93 sq in Pressure to which they are adjusted 130 lbs.

Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 3'-6" Inside Mean dia. of boilers 12'-6" Length 10'-0"

Material of shell plates Steel. Thickness 25/32 Range of tensile strength 28-32 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams D.R. lap. long. seams T.R. Double Strap Diameter of rivet holes in long. seams 15/16 Pitch of rivets 6 3/4"

Top of plates at width of butt straps 13 3/4" Per centages of strength of longitudinal joint rivets 105% plate 85% Working pressure of shell by

rules 131 lbs. Size of manhole in shell 16" x 12" Size of compensating ring McNeil's 8" thick No. and Description of Furnaces in each

Boiler 2 in No Morrison's. Material Steel. Outside diameter 46 1/2" Length of plain part top Corrugated Thickness of plates crown 7/8"

Description of longitudinal joint Welded. No. of strengthening rings 7 Working pressure of furnace by the rules 135 lbs. Combustion chamber

plates: Material Steel. Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 5/8 Pitch of stays to ditto: Sides 8 5/8 x 9 1/2 Back 8 5/8 x 9"

Top 8 5/8 x 9 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 133 lbs. Material of stays Steel Area at

smallest part 145 sq in Area supported by each stay 81.9 sq in Working pressure by rules 141.5 lbs End plates in steam space: Material Steel. Thickness 15/16

Pitch of stays 18 1/2 x 17 How are stays secured Nuts & washers Working pressure by rules 132 lbs. Material of stays Steel Area at smallest part 4 sq in

Area supported by each stay 314.5 sq in Working pressure by rules 136 lbs. Material of Front plates at bottom Steel. Thickness 7/8 Material of

Lower back plate Steel. Thickness 7/8 Greatest pitch of stays 14 1/2 x 9 Working pressure of plate by rules 182 lbs. Diameter of tubes 3 1/2 ext.

Pitch of tubes 4 5/8 x 4 5/8 Material of tube plates Steel. Thickness: Front 7/8 Back 5/8 Mean pitch of stays 11 9/16 Pitch across wide

water spaces 14 1/2 Working pressures by rules 130.5 lbs. Girders to Chamber tops: Material Steel. Depth and thickness of

girder at centre 7 x 1 1/4 Length as per rule 28 1/16 Distance apart 8 5/8 Number and pitch of Stays in each 2 in No - 9 1/2

Working pressure by rules 137 1/2 lbs. Steam dome: description of joint to shell % of strength of joint

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

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

MANUFACTURER The foregoing is a correct description,

J. W. Richard Manufacturer.

Dates of Survey During progress of work in shops - July 1, 8, 23, Aug 20, 27, Sept 1, 10, 24, Oct 6, 8, 14, 15, 22, 25, 29, Nov 5, 10, 12, 19, 24, 26, Dec 13, Feb 23.
while building During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith Yes
Total No. of visits 23.

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

The Boiler has now been built under Special Survey and in accordance with the approved plan & Secretary's Letter (E) dated 20th March 1920. The workmanship & materials are of good quality & when tested & hence the working pressure was found satisfactory in every respect.

Survey Fee ... £ 9.68
Travelling Expenses (if any) £ : :
When applied for, 19.21.
When received, 19.21.
Don't to the 19.21.

Committee's Minute

Assigned

Transmit to London. Mr.

John Dykes & Dykes Ltd
Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 22 FEB. 1924
TUES. 30 MAR. 1924

TUE. 4 DEC 1928

Lloyd's Register Foundation

FRI. 23 APR 1924

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