

(Boiler No 2089)

Rpt. 5a.

REPORT ON BOILERS.

No. 81972

SAT. 5 MAR. 1921

Received at London Office

Date of writing Report 2-8-1921 When handed in at Local Office 4 MAR 1921 Port of 191
No. in Survey held at Birkenhead Date, First Survey Sept 22nd/20 Last Survey Mar 1st 1921
Reg. Book. The Manchester Dry Dock & Vessel Co Ltd (Number of Visits 8) Gross Tons 73
on the Manchester Dry Dock & Vessel Co Ltd Net Tons 73
Master Ellismen Port By whom built Manchester Dry Dock & Vessel Co Ltd When built 1921
Engines made at Birkenhead By whom made Cammell Laird & Co Ltd When made 1921
Boilers made at Birkenhead By whom made Cammell Laird & Co Ltd When made 1921
Registered Horse Power 300 Owners John Spensers & Co Port belonging to John Spensers & Co

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spensers & Co

(Letter for record S) Total Heating Surface of Boilers 952 sq ft Is forced draft fitted No No. and Description of

Boilers One cylindrical multitubular S.B. Working Pressure 130 lbs Tested by hydraulic pressure to 260 lbs Date of test 23.12.20

No. of Certificate 2159 Can each boiler be worked separately Yes Area of fire grate in each boiler 35 sq ft No. and Description of

safety valves to each boiler One double spring loaded Area of each valve 4.9087 sq in Pressure to which they are adjusted 130 lbs

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

Smallest distance between boilers or uptakes and bunkers or woodwork 2'-0" Inside dia. of boilers 10'-6" Length 10'-0"

Material of shell plates Steel Thickness 3/32" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DR lap long. seams DR double strap Diameter of rivet holes in long. seams 15/16" Pitch of rivets 4.88"

Lap of plates or width of butt straps 9 1/2" Per centages of strength of longitudinal joint 87.7% Working pressure of shell by

rules 134 lbs Size of manhole in shell 16" x 12" Size of compensating ring Mc Neil No. and Description of Furnaces in each

boiler 2mc No Plain Material Steel Outside diameter 3'-3 3/4" Length of plain part 75" Thickness of plates 5/8"

Description of longitudinal joint Weld No. of strengthening rings Yes Working pressure of furnace by the rules 130.5 lbs Combustion chamber

plates: Material Steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 27/32" Pitch of stays to ditto: Sides 8 1/2" x 7 3/8" Back 8 1/2" x 7 3/8"

Top 8 1/2" x 7 3/8" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 137 lbs Material of stays Steel Area at

smallest part 1.19 sq in Area supported by each stay 62.68 sq in Working pressure by rules 152 lbs End plates in steam space: Material Steel Thickness 3/32"

Pitch of stays 16" x 14 3/4" How are stays secured Washers Working pressure by rules 142.5 lbs Material of stays Steel Area at smallest part 326 sq in

Area supported by each stay 236 sq in Working pressure by rules 143.6 lbs Material of Front plates at bottom Steel Thickness 3/32" Material of

Lower back plate Steel Thickness 27/32" Greatest nitch of stays 14 3/4" x 7 3/8" Working pressure of plate by rules 181 lbs Diameter of tubes 5" ext.

Pitch of tubes 4 1/4" x 4 1/8" Material of tube plates Steel Thickness: Front 27/32" Back 11/16" Mean pitch of stays 10 5/8" Pitch across wide

water spaces 14" Working pressures by rules 130 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 6" x 1 7/8" Length as per rule 28 1/2" Distance apart 7 3/8" Number and pitch of Stays in each 2mc No - 8 1/2"

Working pressure by rules 137 lbs Steam dome: description of joint to shell Yes % of strength of joint Yes

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

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

SUPERHEATER. Type Yes Date of Approval of Plan Yes Tested by Hydraulic Pressure to Yes

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

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

The foregoing is a correct description,
CAMMELL LAIRD AND COMPANY LIMITED

Manufacturer
22 FEB 1921

LOCAL SECRETARY

Dates of Survey Sept 22, Nov 12, 19, Dec 3, 10, 17, 23, Mar 1 Is the approved plan of boiler forwarded herewith Yes
while building During erection on board vessel Total No. of visits 8

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has now been built

under Special Survey & in accordance with the approved plan & Secretary's letter (E)

dated the 11th August 1920. The workmanship & materials are of good quality &

when tested to twice the working pressure were found satisfactory in every respect

Survey Fee ... £ 6 : 6 : : When applied for, 191

Travelling Expenses (if any) £ : : When received, 191

Committee's Minute

Assigned

Transmit to London

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

Lloyd's Register
Foundation

003106-003115-0148