

REPORT ON BOILERS.

Sld. No. 29318
Don. No. 90,545
-4 NOV 1926

Received at London Office

Date of writing Report 1 OCT. 1928 When handed in at Local Office 1 OCT 1928 Port of London

No. in Reg. Book 101 Survey held at Stitchin Date, First Survey 4th September Last Survey 27th September 1926

on the Spencer-Bowenbuilt Wash Heat Boilers No. 5821 (Number of Visits 4) Tons { Gross 5311 Net 3096

Built at Swanland By whom built Lu. J. Laine Sons Ltd Yard No. 195 When built 1926

Engines made at do By whom made Wm. Bradford & Son Engine No. C158 When made 1926

Boilers made at _____ By whom made _____ Boiler No. _____ When made _____

Owners Silver Line Port belonging to London

VERTICAL DONKEY BOILER.

Made at Stitchin By whom made Spencer-Bowenbuilt Boiler No. 5821 When made 1926 Where fixed at top of grate

Manufacturers of Steel Stewart & Alford & Leeds Forge.

Total Heating Surface of Boiler 143 sq Is forced draught fitted _____ Coal or Oil fired Wash Heat

No. and Description of Boilers One Spencer-Bowenbuilt - Kirk's Patent Working pressure 100 lbs

Tested by hydraulic pressure to 200 lbs per sq. in. Date of test 27-9-26 No. of Certificate 1200

Area of Firegrate in each Boiler Nil No. and Description of safety valves to each boiler 2 Spring loaded

Area of each set of valves per boiler { per rule 3.5 sq as fitted 3.5 sq Pressure to which they are adjusted 105 lbs Are they fitted with easing gear Yes

State whether steam from aux boilers can enter the donkey boiler No. Smallest distance between boiler or uptake and bunkers or woodwork _____

Is oil fuel carried in the double bottom under boiler No. Smallest distance between base of boiler and tank top plating _____

Is the base of the boiler insulated open ended Largest internal dia. of boiler 3 ft Height 6' 9"

Shell plates: Material Steel Tensile strength 28-32 Thickness 3/4 - 9/16

Are the shell plates welded or flanged No Description of riveting: circ. seams { end SR inter SR long. seams SR Lap

Dia. of rivet holes in { circ. seams 13/16 long. seams _____ Pitch of rivets { 2" Percentage of strength of circ. seams { plate 59.3 rivets 55.7 of Longitudinal joint { plate 58.4 rivets 84.2 combined _____

Working pressure of shell by rules 150 Thickness of butt straps { outer _____ inner _____

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat _____ Material _____

Tensile strength _____ Thickness _____ Radius _____ Working pressure by rules _____

Description of Furnace: Plain, spherical, or dished crown _____ Material _____ Tensile strength _____

Thickness _____ External diameter { top _____ bottom _____ Length as per rule _____ Working pressure by rules _____

Pitch of support stays circumferentially _____ and vertically _____ Are stays fitted with nuts or riveted over _____

Diameter of stays over thread _____ Radius of spherical or dished furnace crown _____ Working pressure by rule _____

Thickness of Ogee Ring _____ Diameter as per rule { D _____ d _____ Working pressure by rule _____

Combustion Chamber: Material _____ Tensile strength _____ Thickness of top plate _____

Radius if dished _____ Working pressure by rule _____ Thickness of back plate _____ Diameter if circular _____

Length as per rule _____ Pitch of stays _____ Are stays fitted with nuts or riveted over _____

Diameter of stays over thread _____ Working pressure of back plate by rules _____

Tube Plates: Material { front Steel back _____ Tensile strength { 28-32 Thickness { 5/8 Mean pitch of stay tubes in nests _____

If comprising shell, Dia. as per rule { front _____ back _____ Pitch in outer vertical rows { _____ Dia. of tube holes FRONT { stay _____ plain 2 1/4 BACK { stay _____ plain 2"

Is each alternate tube in outer vertical rows a stay tube _____ Working pressure by rules { front 150 back _____

Girders to combustion chamber tops: Material _____ Tensile strength _____

Depth and thickness of girder at centre _____ Length as per rule _____

Distance apart _____ No. and pitch of stays in each _____ Working pressure by rule _____

W1157-0040



Crown stays: Material _____ Tensile strength _____ Diameter { at body of stay, _____ or _____ over threads _____ }
 No. of threads per inch _____ Area supported by each stay _____ Working pressure by rules _____

Screw stays: Material _____ Tensile strength _____ Diameter { at turned off part, _____ or _____ over threads _____ } No. of threads per inch _____
 Area supported by each stay _____ Working pressure by rules _____ Are the stays drilled at the outer ends _____

Tubes: Material *Steel* External diameter { plain *2" smooth b* or *2 1/4"* } Thickness { *18 GWS.* }
 No. of threads per inch _____ Pitch of tubes *3 x 3* Working pressure by rules _____

Manhole Compensation: Size of opening in shell plate *14 x 11* Section of compensating ring *24 x 21 x 7/16* No. of rivets and diameter of rivet holes *24 x 13/16* Outer row rivet pitch at ends *5 3/4* Depth of flange if manhole flanged _____

Uptake: External diameter _____ Thickness of uptake plate _____

Cross Tubes: No. _____ External diameters { _____ } Thickness of plates _____

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with _____

The foregoing is a correct description,
SPENCER-BONECOURT LTD.
W. Jackson. Manufacturer.

Dates of Survey { During progress of work in shops - *1926 SEP 7, 13, 15, 27* } Is the approved plan of boiler forwarded herewith (If not state date of approval.) *No*
 while building { During erection on board vessel - - } Total No. of visits *4* *See note no 5420 Aug 30 1926*

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

This boiler has been built under special survey in accordance with the plan & the Society's Rules -
The workmanship is good. The material has been tested according to the Rules -
Upon completion the boiler was tested by hydraulic pressure to 200 lbs per sq inch and showed no sign of weakness or defect.
The boiler is stamped: - No. 1300
Class 2nd 200 lbs
1st 100 lbs
27-9-26 H.P.C.

This boiler has been satisfactorily fitted in the vessel & the safety valves adjusted under steam to the pressure stated on the plan for notation see machinery report.

Survey Fee ... £ *4 : 4* : } When applied for, *1 OCT 1926*
 Travelling Expenses (if any) £ *1 - : 15 - 10* } When received, *11 Oct 26*
Murphy

H. F. Conrick
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI 5 NOV 1926*
 Assigned *See Exp attached*

