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9 OCT 1944
IN D.O.

REPORT ON BOILERS.

No. 17723

Received at London Office 17 OCT 1944

Date of writing Report 19 When handed in at Local Office 14.10.44 Port of Middlesbrough

No. in Survey held at 100 Reg. Book 100 on the 100 Vic 99 " A/MS 1088 (Number of Visits) Gross Tons Net.

Built at 100 By whom built 100 John Harker Ltd. Yard No. 184 When built 1945

Engines made at 100 By whom made 100 100 (1931) Ltd. Engine No. 100 When made 100

Boilers made at 100 By whom made 100 100 100 Ltd. Boiler No. 100 When made 1944

Owners Port belonging to

VERTICAL DONKEY BOILER.

Made at 100 By whom made 100 100 100 Ltd. Boiler No. 100 When made 1944 Where fixed 100

Manufacturers of Steel 100

Total Heating Surface of Boiler 100 Is forced draught fitted NO Coal or Oil fired Coal

No. and Description of Boilers 1. Vertical 100 Working pressure 100

Tested by hydraulic pressure to 100 Date of test 100 No. of Certificate 100

Area of Firegrate in each Boiler 100 No. and Description of safety valves to each boiler 1-2" C.I. 100

Area of each set of valves per boiler { per rule 100 as fitted 100 Pressure to which they are adjusted 100 Are they fitted with easing gear YES

State whether steam from main boilers can enter the donkey boiler Yes Smallest distance between boiler or uptake and bunkers 100

Is oil fuel carried in the double bottom under boiler NO Smallest distance between base of boiler and tank top plating 100

Is the base of the boiler insulated Yes Largest internal dia. of boiler 100 Height 100

Shell plates: Material 100 Tensile strength 100 Thickness { upper 100 lower 100

Are the shell plates welded or flanged NO Description of riveting: circ. seams { end 100 inter 100 long. seams DR. DBS.

Dia. of rivet holes in { circ. seams 100 long. seams 100 Pitch of rivets { upper 100 lower 100 Percentage of strength of circ. seams { plate 100 rivets 100 of Longitudinal joint { plate 100 rivets 100 combined 100

Working pressure of shell by rules 100 Thickness of butt straps { outer 100 inner 100

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Yes Material 100

Tensile strength 100 Thickness 100 Radius 100 Working pressure by rules 100

Description of Furnace: Plain, spherical, or dished crown Yes Material 100 Tensile strength 100

Thickness 100 External diameter { top 100 bottom 100 Length as per rule 100 Working pressure by rules 100

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

Diameter of stays over thread Yes Radius of spherical or dished furnace crown 100 Working pressure by rule 100

Thickness of Ogee Ring 100 Diameter as per rule { D 100 d 100 Working pressure by rule 100

Combustion Chamber: Material 100 Tensile strength 100 Thickness of top plate 100

Radius if dished Yes Working pressure by rule 100 Thickness of back plate 100 Diameter if circular Yes

Length as per rule Yes Pitch of stays 100 Are stays fitted with nuts or riveted over Rivets per

Diameter of stays over thread 100 Working pressure of back plate by rules 100

Tube Plates: Material { front 100 back 100 Tensile strength { 100 Thickness { 100 Mean pitch of stay tubes in nests 100

If comprising shell, Dia. as per rule { front 100 back 100 Pitch in outer vertical rows { 100 Dia. of tube holes FRONT { stay 100 plain 100 BACK { stay 100 plain 100

Is each alternate tube in outer vertical rows a stay tube Yes Working pressure by rules { front 100 back 100

Girders to combustion chamber tops: Material 100 Tensile strength 100

Depth and thickness of girder at centre 100 Length as per rule 100

Distance apart 100 No. and pitch of stays in each Yes Working pressure by rule 100

If not, state whether, and when, one will be sent?

No

Is a Report also sent on the Hull of the Ship?

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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 Steel Tensile strength 26.30 Diameter ☒ { at turned off part, or over threads. 1 3/8" No. of threads per inch 9.

Area supported by each stay 80.75 sq Working pressure by rules 125.6 Are the stays drilled at the outer ends no.

Tubes: Material Hot rolled welded steel External diameter ☒ { plain 2 1/4" stay 2 1/4" Thickness ☒ { 10.629 5/16"

No. of threads per inch 9 Pitch of tubes 3 1/2" x 3 1/4" Working pressure by rules 190 lb.

Manhole Compensation: Size of opening in shell 16" x 12" Section of compensating ring NONE No. of rivets and diameter of rivet holes ☒ Outer row rivet pitch at ends ☒ Depth of flange if manhole flanged 3 1/2"

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,
STOCKTON CHEMICAL ENGINEERS & RILEY BOILERS LTD.
G. W. Riley Manufacturer.

Dates of Survey { During progress of work in shops - 1944 Mar: 28 Apr: 19. 26 May: 4. 10. 17. 22 June Is the approved plan of boiler forwarded herewith 30/11/43.
while building { During erection on board vessel - 2. 12. 20. 28 July: 3. 12. 20. 24 Aug: 2. 9. 16. 30 Sep Total No. of visits 23
8. 15. 21 Oct: 5

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

This boiler has been built under Special Survey & in accordance with the Rule Requirements & approved plan.

The materials & workmanship are good, & on completion the boiler was hydraulically tested to 230 lb/sq. & found satisfactory.

This boiler is being forwarded to Messrs Crabtree (1931) Ltd for their contract 4/MS/19575.

The above boiler fitted in 'Vic 99' at Knottingly, examined under steam safety valves adjusted to 123 lb (ring pipe P 13/32 S 3/8) accumulation test held. Boiler found satisfactory on completion of all tests
W. S. Shields
Mull.

Survey Fee ... £ 4 : 4 : } When applied for, 19
Travelling Expenses (if any) £ : : } When received, 19

L. Norman Stuart
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 7 SEP 1945

Assigned See F.E. machy. rpt.