

REPORT ON BOILERS.

AUG 1949 No. 579.

Received at London Office

Report 19 When handed in at Local Office 19 Port of NOTTINGHAM.

Survey held at NEWARK-ON-TRENT. Date, First Survey 25.2.49. Last Survey 10.6. 19 49.

the TRAWLER. "BLACKTHORN" (Number of Visits 3) Tons 2406 Gross 2406 Net 2406

By whom built Messrs. Vospers Ltd., Yard No. 2406 When built 1946

By whom made Engine No. When made

By whom made Boiler No. When made

Port belonging to

L DONKEY BOILER. ✓

By whom made Abbott & Co. (Newark) Ltd. Boiler No. 4217 ✓ When made 1949 Where fixed ER

of Steel The Appleby-Frodingham Steel Co., Scunthorpe. ✓

Surface of Boiler 56.5 sq.ft. ✓ Is forced draught fitted - Coal or Oil fired Oil or Exht. Gas

Description of Boilers One-Clarkson Thimble Tube, Type Bato/65. ✓ Working pressure 25 lb./sq.in.

Hydraulic pressure to 50 lb./sq.in. ✓ Date of test 10th June, 1949. ✓ No. of Certificate 122 ✓

Rate in each Boiler 3 sq.ft. No. and Description of safety valves to each boiler One-2" Single, Spring, Lock up. ✓

Set of valves per boiler per rule - as fitted 3.14" ✓ Pressure to which they are adjusted - Are they fitted with easing gear Yes ✓

Can steam from main boilers enter the donkey boiler - Smallest distance between boiler or uptake and bunkers -

Is oil fuel carried in the double bottom under boiler - Smallest distance between base of boiler and tank top plating -

Is the base of the boiler insulated - Largest internal dia. of boiler 2 ft. 3 ins. Height 5 ft. 2 1/2 ins.

Material S.M. Steel. ✓ Tensile strength 28/32 T/sq.ins. ✓ Thickness 5/16" ✓

Boiler plates welded or flanged Flanged. If fusion welded, state name of welding firm -

Requirements of the Rules for Class I vessels been complied with - Description of riveting: circ. seams end Single Lap. inter. Single Lap.

Single Lap. ✓ Dia. of rivet holes in circ. seams 11/16" & 3/4" ✓ long. seams 3/4" ✓ Pitch of rivets 1.716" & 1.99" ✓ 1.82" ✓ Percentage of strength of circ. seams plate 60 & 62. rivets 47 & 49

Al joint plate 62 rivets 54 combined - Thickness of butt straps outer - inner - Shell Crown: Whether complete hemisphere, dished partial

Flat Flat Flanged. ✓ Material S.M. Steel. ✓ Tensile strength 26/30 T/sq.in. Thickness 1/2" ✓

Description of Furnace: Plain, spherical, or dished crown Plain ✓ Material S.M. Steel. ✓

Top 26/30 Ton/sq.in. ✓ Thickness 1/2" External diameter top 14.1/4" ✓ bottom 11.1/4" ✓ Length as per rule Yes ✓

Port stays circumferentially - and vertically - Are stays fitted with nuts or riveted over -

Stays over thread - Radius of spherical or dished furnace crown -

Ogee Ring - Diameter as per rule D - d -

Chamber: Material S.M. Steel. ✓ Tensile strength 26/30 T/sq.in. ✓ Thickness of top plate 3/8" ✓

Thickness of back plate - Diameter if circular 1'-8.1/8" ✓

Pitch of stays -

Clarkson Thimble Tubes, in Combustion Chamber, Plate. ✓

Material front - back - Tensile strength - Thickness - Mean pitch of stay tubes in nests -

Comb. Cham. - shell, Dia. as per rule front - back - Pitch in outer vertical rows 4" ✓ Dia. of tube holes XXXXX plain 1.3/4" BACK stay - plain -

Do not place tube in outer vertical rows a stay tube -

Combustion chamber tops: Material - Tensile strength -

Thickness of girder at centre - Length as per rule -

No. and pitch of stays in each -

Crown stays: Material - Tensile strength - Diameter { at body of stay, - or over threads, -
No. of threads per inch - Screw stays: Material - Tensile strength -
Diameter { at turned off part, - or over threads, - No. of threads per inch - Are the stays drilled at the outer ends -
Tubes: Material S.M. Steel. External diameter { plain 1.3/4" Thickness { 10.G & 11.G.
No. of threads per inch - Pitch of tubes Vert. 4" Circum. 3.25"
Manhole Compensation: Size of opening in shell plate - Section of compensating ring - No. of rivets and diameter
of rivet holes - Outer row rivet pitch at ends - Depth of flange if manhole flanged -
Uptake: External diameter 8.3/4" Thickness of uptake plate 3/8"
Cross Tubes: No. - External diameters { - Thickness of plates -
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes. ✓

The foregoing is a correct description,
FOR ABBOTT & CO. (NEWARK) LIMITED,
Geo. F. Ashurst, Manufacturer.
DIRECTOR

Dates of Survey { During progress of work in shops - 25.2.49., 21.4.49., 10.6.49. Is the approved plan of boiler forwarded herewith 21.4.48.
while building { During erection on board vessel - - - (If not state date of approval.)
Total No. of visits

Is this Boiler a duplicate of a previous case No. If so, state Vessel's name and Report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Survey, in accordance with the approved plans, and to our satisfaction. On completion the boiler was subjected to a hydraulic pressure of 50 lbs./sq.in. and found to be sound and tight. Workmanship and materials are good. The boiler has been despatched to Messrs. Vosper Ltd., Portsmouth. ✓

Survey Fee ... £ 10 : 0 : When applied for, 2.8. 1949.
Travelling Expenses (if any) £ 2 : 0 : When received, 19

Committee's Minute FRI. 23 SEP 1947
Assigned

Deferred
Send Sam

E. H. Hickling
Engineer Surveyor to Lloyd's Register of Shipping
Lloyd's Register Foundation