

REPORT ON BOILERS.

No. 33576

Received at London Office 12 JAN 1943

Date of writing Report 19 When handed in at Local Office 5 Jan 1943 Port of Sunderland.

No. in Survey held at Sunderland. Date, First Survey Last Survey 1st Jan 1943

Reg. Book. "STAN LODGE" (Number of Visits) Gross 5976-50 Tons Net 4048.93

Built at Sunderland By whom built Wm. Pickersgill & Son Ld. Yard No. 256 When built 1942.

Engines made at Sunderland By whom made G. Clark (1938) Ld. Engine No. 1241 When made 1942

Boilers made at Sunderland By whom made G. Clark (1938) Ld. Boiler No. 1241 When made 1942.

Nominal Horse Power 496 Owners Stanhope S. S. Co Ld. Port belonging to London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Steel Company of Scotland Ld. (Letter for Record S.)

Total Heating Surface of Boilers 5430 sq ft Is forced draught fitted Yes. Coal or Oil fired Coal

No. and Description of Boilers Two Single Ended Multitubular return tube marine Working Pressure 220

Tested by hydraulic pressure to 380 Date of test 16th/11/42 No. of Certificate 4462 Can each boiler be worked separately Yes.

Area of Firegrate in each Boiler 64.5 No. and Description of safety valves to each boiler Two direct spring.

Area of each set of valves per boiler {per Rule 15.24 sq in as fitted 16.58 sq in Pressure to which they are adjusted 220 Are they fitted with easing gear Yes.

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No.

Smallest distance between boilers or uptakes and bunkers or woodwork 1' - 9" Is oil fuel carried in the double bottom under boilers No.

Smallest distance between shell of boiler and tank top plating 2' - 6" Is the bottom of the boiler insulated Yes.

Largest internal dia. of boilers 15' - 11 15/16" Length 12' - 4 1/2" Shell plates: Material Steel Tensile strength 29/33

Thickness 1 1/4 3/32" Are the shell plates welded or flanged No. Description of riveting: circ. seams {end D.R. Lap. inter. 4 1/8" - 10 1/16"

long. seams T.R.D.B.S. Diameter of rivet holes in {circ. seams 1 9/16" long. seams 62.4 Pitch of rivets {plate 48.4 rivets 85.5 rivets 86.

Percentage of strength of circ. end seams {plate 85.5 rivets 88.2 rivets 88.2

Percentage of strength of longitudinal joint {plate 85.5 rivets 88.2 rivets 88.2

Thickness of butt straps {outer 1 3/16" inner 1 5/16" No. and Description of Furnaces in each Boiler Three Corrugated (Keighton)

Material Steel Tensile strength 26/30 Smallest outside diameter 3' - 11 1/2"

Length of plain part {top 44 1/4" bottom 44 1/4" Thickness of plates {crown 44 1/4" bottom 44 1/4" Description of longitudinal joint Welded.

Dimensions of stiffening rings on furnace or on bottom 1 1/2"

End plates in steam space: Material Steel Tensile strength 26/30 Thickness 1 1/2" Pitch of stays 23" x 20 3/16"

How are stays secured Double nuts.

Tube plates: Material {front Steel back Steel Tensile strength 26/30 Thickness 15 1/16" 4/8"

Mean pitch of stay tubes in nests 8.4" Pitch across wide water spaces 14 1/2" x 4 1/2"

Girders to combustion chamber tops: Material Steel Tensile strength 29/33 Depth and thickness of girder 8 1/2"

at centre 11 1/2" x 2" Length as per Rule 46 1/2" Distance apart 8 1/2" No. and pitch of stays 2 @ 11 1/8"

in each 2 @ 11 1/8" Combustion chamber plates: Material Steel Tensile strength 26/30 Thickness 25 1/32" 5 1/4"

Tensile strength 26/30 Thickness: Sides 25 1/32" 5 1/4" Back 25 1/32" 5 1/4" Top 25 1/32" 5 1/4" Bottom 25 1/32" 5 1/4"

Pitch of stays to ditto: Sides 11 1/8" x 8 1/2" Back 10 1/2" x 8 1/4" Top 11 1/8" x 8 1/2" Are stays fitted with nuts or riveted over Nuts inside Shell Caulked.

Front plate at bottom: Material Steel Tensile strength 26/30 Thickness 15 1/16"

Lower back plate: Material Steel Tensile strength 26/30 Thickness 3 1/32"

Pitch of stays at wide water space 15 1/8" x 10 1/2" Are stays fitted with nuts or riveted over Nuts.

Main stays: Material Steel Tensile strength 28/32 Diameter {At body of stay, 3 1/2" or 3 3/4" No. of threads per inch 6

Screw stays: Material Steel Tensile strength 26/30 Diameter {At turned off part, 1 3/4" - 1 7/8" x 2" or 1 3/4" - 1 7/8" x 2" No. of threads per inch 9.

(Backs) (Centres) (Sides of Chambers)



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Are the stays drilled at the outer ends no. Margin stays: Diameter { At turned off part, 2 1/8" or Over threads 2 1/8"

No. of threads per inch 9.

Tubes: Material S.D. Steel External diameter { Plain 2 1/2" Stay 2 1/2" Thickness { 8 LG. 3/8" + 1/16" No. of threads per inch 9.

Pitch of tubes 3 3/4" x 3 3/4" Manhole compensation: Size of opening in shell plat (In End 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 4 3/16" Steam Dome: Material none.

Tensile strength ✓ Thickness of shell ✓ Description of longitudinal joint ✓

Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint { Plate ✓ Rivets ✓

Internal diameter ✓ Thickness of crown ✓ No. and diameter of stays ✓ Inner radius of crown ✓

How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell ✓

Type of Superheater ✓ Manufacturers of { Tubes ✓ Steel forgings ✓ Steel castings ✓

Number of elements ✓ Material of tubes ✓ Internal diameter and thickness of tubes ✓

Material of headers ✓ Tensile strength ✓ Thickness ✓ Can the superheater be shut off and the boiler be worked separately ✓ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ✓

Area of each safety valve ✓ Are the safety valves fitted with easing gear ✓

Pressure to which the safety valves are adjusted ✓ Hydraulic test pressure: tubes ✓ forgings and castings ✓ and after assembly in place ✓ Are drain cocks or valves fitted to free the superheater from water where necessary ✓

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes.

The foregoing is a correct description,

Anchor & Co. Ltd. Manufacturer.

Dates of Survey { During progress of work in shops - - } Please see Rpt. 4 Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) ✓

while building { During erection on board vessel - - } ✓ Total No. of visits ✓

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

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

These boilers have been constructed under Special Survey in accordance with the approved plan & the rules of the Society. The materials & workmanship are good. On completion the boilers were tested by hydraulic pressure of 380 lbs/sq. & found tight & sound at that pressure. They have been securely fixed on board the vessel & safety valves adjusted to working pressure in accordance with rule requirements.

In recommendation please see Machy. Rpt.

Survey Fee ... See Machy Rpt. When applied for, 19

Travelling Expenses (if any) £ ✓ When received, 19

D. St. Laour.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

22 JAN 1943

Assigned

See Std. 7E 33576



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