

REPORT ON BOILERS.

No. 20689.

20.25

Received at London Office 18 DEC 1941

Date of writing Report 10 When handed in at Local Office 15.12.1041 Port of Aberdeen

No. in Reg. Book. Survey held at Aberdeen Date, First Survey 5th Nov., 1941. Last Survey 10th Dec 1941
on the H.M.S. LOOSESTRIFE (Number of Visits 6) Tons { Gross 813.22 Net 304.14

Master Built at Aberdeen By whom built Hall Russell & Co. Ltd. Yard No. 461 When built 1941
Engines made at Aberdeen By whom made Hall Russell Engine No. 461 When made 1941
Boilers made at Glasgow By whom made Barclay Curle & Co. Ltd. Boiler No. 39/28 When made 1941
Nominal Horse Power Owners The Admiralty Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record S ✓)
Total Heating Surface of Boilers Is forced draught fitted Yes Coal or Oil fired Oil
No. and Description of Boilers Two Single ended Working Pressure 225 lbs

Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately
Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 Direct Spring loaded
Area of each set of valves per boiler { per Rule as fitted Pressure to which they are adjusted 225 lbs Are they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓
Smallest distance between boilers or uptakes and bunkers or woodwork 13" Is oil fuel carried in the double bottom under boilers No
Smallest distance between shell of boiler and tank top plating No tank Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers Length Shell plates: Material Tensile strength
Thickness Are the shell plates welded or flanged Description of riveting: circ. seams { end inter.
Long. seams Diameter of rivet holes in { circ. seams long. seams Pitch of rivets {
Percentage of strength of circ. end seams { plate rivets Percentage of strength of circ. intermediate seam { plate rivets
Percentage of strength of longitudinal joint { plate rivets combined Working pressure of shell by Rules

Thickness of butt straps { outer inner No. and Description of Furnaces in each Boiler
Material Tensile strength Smallest outside diameter
Length of plain part { top bottom Thickness of plates { crown bottom Description of longitudinal joint
Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules
End plates in steam space: Material Tensile strength Thickness Pitch of stays

How are stays secured Working pressure by Rules
Tube plates: Material { front back Tensile strength Thickness
Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front 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 Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over
Working pressure by Rules Front plate at bottom: Material Tensile strength
Thickness Lower back plate: Material Tensile strength Thickness
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working Pressure Main 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 Margin stays: Diameter { At turned off part, or Over threads

No. of threads per inch Area supported by each stay Working pressure by Rules

Tubes: Material External diameter { Plain Stay Thickness { No. of threads per inch

Pitch of tubes Working pressure by Rules 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 Steam Dome: Material

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 Working pressure by Rules Thickness of crown No. and diameter of stays

Inner radius of crown Working pressure by Rules

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 None 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 Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure

tubes forgings and castings and after assembly in place Are drain cocks 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,
 FOR HALL, RUSSELL & CO., LTD.
 Secretary

Dates of Survey { During progress of work in shops - - } 1941 Nov. 5. 11. 12. 18. 20. Dec. 10.
 while building { During erection on board vessel - - - }
 Are the approved plans of boiler and superheater forwarded herewith No. Total No. of visits 6

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been built under Special Survey (see Glasgow Report No. 64430) They have been securely fitted on board the vessel, examined under full pressure and found satisfactory. All the requirements of the Specification have been carried out.

The report accompanies that of the Machinery.

Changed on Mchg Rpt.

Survey Fee ... £ : : When applied for, 10
 Travelling Expenses (if any) £ : : When received, 10

J. D. Avey
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRL 2 JAN 1942

Assigned

See Abn G.E. 20689