

REPORT ON BOILERS.

No. 20030.

Received at London Office AUG 14 1939

Date of writing Report 10.8.1939 When handed in at Local Office 11.8.1939 Port of Aberdeen.

No. in Reg. Book. Survey held at Aberdeen Date, First Survey Last Survey 7th August 1939.

on the Non-propelling bucket dredger "FOREMOST CLAN" (Number of Visits) Tons { Gross 314.46 Net 190.04.

Master Built at Aberdeen By whom built A. Hall & Co. Ltd. Yard No. 664 When built 1939.

Engines made at Aberdeen By whom made A. Hall & Co. Ltd. Engine No. 360 When made 1935.

Boilers made at Glasgow By whom made D. Bowman & Co. Ltd. Boiler No. 435 When made 1939.

Nominal Horse Power Owners James Lawing & Dredging Co. Ltd. Port belonging to London.

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY.

Manufacturers of Steel See Glasgow Rpt V 6 1247. (Letter for Record)

Total Heating Surface of Boilers Is forced draught fitted No Coal or Oil fired Oil.

No. and Description of Boilers One single ended Working Pressure 140 lb/sq. in.

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 double inclined high lift direct spring loaded 26.11/8/38.

Area of each set of valves per boiler { per Rule 10.61 as fitted 14.13 sq. in. Pressure to which they are adjusted 140 lb/sq. in. 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 18" 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 No.

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

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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 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

FOR ALEXANDER HALL & CO., LTD.
Alfred E. Hanson
The foregoing is a correct description,
Manufacturer.

Dates of Survey { During progress of work in shops - - } 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 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 securely fitted on board the vessel. The safety valves have been adjusted under steam as stated. tried for accumulation & found satisfactory. The materials & workmanship are good. The boiler is eligible in my opinion, to be classed in the Register Book - and to have record of D.B.

See also Glasgow Rpt N° 61244 attached.

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

J. A. Hawey
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned See RFE rpt-

FRI 18 AUG 1939