

REPORT ON BOILERS.

No. 10501

Hull Report No 32126

Received at London Office OCT 13 1919

Date of writing Report 9.10.1919 When handed in at Local Office 9.10.1919 Port of Middlesbrough

No. in Survey held at Stockton-on-Tees Date, First Survey 13th November 1918 Last Survey 9th October 1919

Boiler D.168 for the Admiralty Drifter Hindrise (Number of Visits 28) (S.S. No. 174) Tons { Gross } Net

Master Built at New Holland By whom built W. H. Warren & Co. When built

Engines made at Grimby By whom made Great Central Eng & Co. When made 1919

Boilers made at Stockton By whom made Messrs. Hutchinson & Co. Ltd (No. 4126-C) When made 1919

Registered Horse Power Owners Admiralty Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Heneen & Sons

Letter for record (5) Total Heating Surface of Boilers 814 sq ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 12.8.19

of Certificate 6024 Can each boiler be worked separately Area of fire grate in each boiler 30 1/2 sq ft No. and Description of Safety valves to each boiler 2 direct spring Area of each valve 3.98 sq in Pressure to which they are adjusted 185 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 8 1/2 in diam. of boilers 10'-0" Length 9'-6"

Material of shell plates steel Thickness 27/32 in Range of tensile strength 28-32 Are the shell plates welded or flanged no

Direction of riveting: cir. seams 2 R. lap long. seams 2 R-3 Riv Diameter of rivet holes in long. seams 15/16 in Pitch of rivets 7 in

Material of plates width of butt straps 14 in x 3/4 in Per centages of strength of longitudinal joint rivets 87.5 Working pressure of shell by rules 182 Size of manhole in shell 16 in x 12 in Size of compensating ring 6 in x 27/32 in No. and Description of Furnaces in each

Material of longitudinal joint Weld No. of strengthening rings one Working pressure of furnace by the rules 180 Combustion chamber

Material of stays: Material steel Thickness: Sides 9/16 in Back 9/16 in Top 9/16 in Bottom 9/16 in Pitch of stays to ditto: Sides 7 1/4 x 8 Back 8 x 7 1/2

If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182 Material of stays steel Area at smallest part 1.504 Area supported by each stay 60 Working pressure by rules 200 End plates in steam space: Material Steel Thickness 7/8 in

How are stays secured nuts & washers Working pressure by rules 185 Material of stays steel Area at smallest part 3.43

supported by each stay 189 Working pressure by rules 189 Material of Front plates at bottom steel Thickness 7/8 in Material of back plate steel Thickness 7/8 in Greatest pitch of stays 14 1/4 x 7 1/2 Working pressure of plate by rules 205 Diameter of tubes 3 1/4 in

Material of tube plates steel Thickness: Front 7/8 in Back 1/2 in Mean pitch of stays 9 1/4 in Pitch across wide spaces 13 1/4 doubled Working pressures by rules 180 Girders to Chamber tops: Material steel Depth and thickness of

at centre 8 in x 1 1/8 in Length as per rule 28 1/4 in Distance apart 7 in Number and pitch of Stays in each 2 @ 8 in

Working pressure by rules 191 Steam dome: description of joint to shell nom % of strength of joint

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed

REHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,
THOMAS HUDRON & CO. LIMITED Manufacturer.
R. W. Johnston

During progress of work in shops: 1913 Nov. 13-26 Dec 9 Jan 22-27 Feb. 4-11 18-25 28 Mar 7-11 Apr Is the approved plan of boiler forwarded herewith yes

During erection on board vessel: 1918 Jan 29 to Aug 31 1920 (Hull) Total No. of visits 28 (Hull) 62

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under survey in accordance with the Rules, the approved plan and the specification. The materials and workmanship are sound and good and on completion the boiler was tested by hydraulic pressure with satisfactory results.

boiler has been securely fitted in the vessel, - for notation see Eng. Rpt attached
 Survey Fee ... £ 4 10-0 When applied for, Monthly 1919
 Selling Expenses (if any) £ ... When received, 1919

TUE. SEP. 28 1920
Herbert J. Subhurst
Wm Morrison
 Engineer Surveyor to Lloyd's Register of Shipping

