

REPORT ON BOILERS.

No. 35845

Received at London Office

WED. 15 MAR. 1916

5a.

of writing Report 15.2.1916 When handed in at Local Office

Port of Glasgow

Date, First Survey 16/2/15

Last Survey 8.3.1916

Survey held at Glasgow

on the Marine Boiler designated 461 S.S. 'DEN PARK' Tons } Gross
Net

Built at Grangemouth By whom built Greenock Grangemouth When built 1916

Boilers made at Dundee By whom made Cooper & Greg. Co (Enc. 172) When made 1916

Boilers made at Glasgow By whom made Dunsmuir, Jackson & Co When made 1915

Registered Horse Power Owners DENHOLM LINE STEAMERS (J. & J. DENHOLM, MANAGERS) Port belonging to GREENOCK

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel Glasgow & Steel, Spencer

Letter for record R) Total Heating Surface of Boilers 3734 sq ft Is forced draft fitted No No. and Description of

Boilers 2 Single Ended. Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 6.7.15

of Certificate 13201 Can each boiler be worked separately YES Area of fire grate in each boiler 56 3/8 sq ft No. and Description of

Boilers 2 DIRECT, SPRING LOADED Area of each valve 7.07 sq ft Pressure to which they are adjusted 185 lbs

Boilers they fitted with easing gear YES In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Boilers smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean dia. of boilers 14.7 1/4" Length 10.6

Boilers material of shell plates S Thickness 1 1/4" Range of tensile strength 28-32 Are the shell plates welded or flanged

Boilers descrip. of riveting: cir. seams DR. long. seams TRIDBS Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 1/2

Boilers of plates or width of butt straps 1-6 3/4" Per centages of strength of longitudinal joint rivets 91.4 plate 86.29 Working pressure of shell by

Boilers es 181 Size of manhole in shell 16 1/2" Size of compensating ring 6 3/4 x 13 1/6 No. and Description of Furnaces in each

Boiler 3 Corrugated Material S Outside diameter 3.9 Length of plain part top bottom Thickness of plates crown bottom 17 3/32

Boiler description of longitudinal joint mild No. of strengthening rings Working pressure of furnace by the rules 182 Combustion chamber

Boiler plates: Material S Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 13/16 Pitch of stays to ditto: Sides 7 7/8 x 8 1/2 Back 8 3/4 x 8

Boiler p 7 7/8 x 8 3/4 If stays are fitted with nuts or riveted heads DN Working pressure by rules 194 Material of stays Iron Diameter at

Boiler smallest part 19 3/4 x 18 1/2 Area supported by each stay 70 1/2 Working pressure by rules 210 End plates in steam space: Material S Thickness 10 1/32

Boiler pitch of stays 19 3/8 x 18 How are stays secured DN Working pressure by rules 186 Material of stays S Diameter at smallest part 8 7/8

Boiler area supported by each stay 33 5/8 Working pressure by rules 181 Material of Front plates at bottom S Thickness 1 1/32 Material of

Boiler over back plate S Thickness 29/32 Greatest pitch of stays 15 1/8 x 3 1/4 Working pressure of plate by rules 188 Diameter of tubes 3 1/2

Boiler pitch of tubes 4 7/8 x 5 Material of tube plates S Thickness: Front 1 1/32 Back 29/32 Mean pitch of stays 12 5/16 Pitch across wide

Boiler inter spaces 14 1/2 Working pressures by rules 181 Girders to Chamber tops: Material Iron Depth and thickness of

Boiler order at centre 8 x 1 (2) Length as per rule 2-6 3/32 Distance apart 8 3/4 Number and pitch of Stays in each 3 at 7 7/8

Boiler Working pressure by rules 187 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

Boiler separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Boiler es Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

Boiler stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Boiler Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

Survey request form

No. 1 attached

DUNSMUIR & JACKSON, Limited The foregoing is a correct description,

James Fletcher Director Manufacturer.

Dates of Survey During progress of 1915 Feb 16 1925 Feb 14 1935 Feb 11 1945 Feb 11 1955 Feb 11 1965 Feb 11 1975 Feb 11 1985 Feb 11 1995 Feb 11 2005 Feb 11 2015 Feb 11 2025 Feb 11 2035 Feb 11 2045 Feb 11 2055 Feb 11 2065 Feb 11 2075 Feb 11 2085 Feb 11 2095 Feb 11 2105 Feb 11 2115 Feb 11 2125 Feb 11 2135 Feb 11 2145 Feb 11 2155 Feb 11 2165 Feb 11 2175 Feb 11 2185 Feb 11 2195 Feb 11 2205 Feb 11 2215 Feb 11 2225 Feb 11 2235 Feb 11 2245 Feb 11 2255 Feb 11 2265 Feb 11 2275 Feb 11 2285 Feb 11 2295 Feb 11 2305 Feb 11 2315 Feb 11 2325 Feb 11 2335 Feb 11 2345 Feb 11 2355 Feb 11 2365 Feb 11 2375 Feb 11 2385 Feb 11 2395 Feb 11 2405 Feb 11 2415 Feb 11 2425 Feb 11 2435 Feb 11 2445 Feb 11 2455 Feb 11 2465 Feb 11 2475 Feb 11 2485 Feb 11 2495 Feb 11 2505 Feb 11 2515 Feb 11 2525 Feb 11 2535 Feb 11 2545 Feb 11 2555 Feb 11 2565 Feb 11 2575 Feb 11 2585 Feb 11 2595 Feb 11 2605 Feb 11 2615 Feb 11 2625 Feb 11 2635 Feb 11 2645 Feb 11 2655 Feb 11 2665 Feb 11 2675 Feb 11 2685 Feb 11 2695 Feb 11 2705 Feb 11 2715 Feb 11 2725 Feb 11 2735 Feb 11 2745 Feb 11 2755 Feb 11 2765 Feb 11 2775 Feb 11 2785 Feb 11 2795 Feb 11 2805 Feb 11 2815 Feb 11 2825 Feb 11 2835 Feb 11 2845 Feb 11 2855 Feb 11 2865 Feb 11 2875 Feb 11 2885 Feb 11 2895 Feb 11 2905 Feb 11 2915 Feb 11 2925 Feb 11 2935 Feb 11 2945 Feb 11 2955 Feb 11 2965 Feb 11 2975 Feb 11 2985 Feb 11 2995 Feb 11 3005 Feb 11 3015 Feb 11 3025 Feb 11 3035 Feb 11 3045 Feb 11 3055 Feb 11 3065 Feb 11 3075 Feb 11 3085 Feb 11 3095 Feb 11 3105 Feb 11 3115 Feb 11 3125 Feb 11 3135 Feb 11 3145 Feb 11 3155 Feb 11 3165 Feb 11 3175 Feb 11 3185 Feb 11 3195 Feb 11 3205 Feb 11 3215 Feb 11 3225 Feb 11 3235 Feb 11 3245 Feb 11 3255 Feb 11 3265 Feb 11 3275 Feb 11 3285 Feb 11 3295 Feb 11 3305 Feb 11 3315 Feb 11 3325 Feb 11 3335 Feb 11 3345 Feb 11 3355 Feb 11 3365 Feb 11 3375 Feb 11 3385 Feb 11 3395 Feb 11 3405 Feb 11 3415 Feb 11 3425 Feb 11 3435 Feb 11 3445 Feb 11 3455 Feb 11 3465 Feb 11 3475 Feb 11 3485 Feb 11 3495 Feb 11 3505 Feb 11 3515 Feb 11 3525 Feb 11 3535 Feb 11 3545 Feb 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6885 Feb 11 6895 Feb 11 6905 Feb 11 6915 Feb 11 6925 Feb 11 6935 Feb 11 6945 Feb 11 6955 Feb 11 6965 Feb 11 6975 Feb 11 6985 Feb 11 6995 Feb 11 7005 Feb 11 7015 Feb 11 7025 Feb 11 7035 Feb 11 7045 Feb 11 7055 Feb 11 7065 Feb 11 7075 Feb 11 7085 Feb 11 7095 Feb 11 7105 Feb 11 7115 Feb 11 7125 Feb 11 7135 Feb 11 7145 Feb 11 7155 Feb 11 7165 Feb 11 7175 Feb 11 7185 Feb 11 7195 Feb 11 7205 Feb 11 7215 Feb 11 7225 Feb 11 7235 Feb 11 7245 Feb 11 7255 Feb 11 7265 Feb 11 7275 Feb 11 7285 Feb 11 7295 Feb 11 7305 Feb 11 7315 Feb 11 7325 Feb 11 7335 Feb 11 7345 Feb 11 7355 Feb 11 7365 Feb 11 7375 Feb 11 7385 Feb 11 7395 Feb 11 7405 Feb 11 7415 Feb 11 7425 Feb 11 7435 Feb 11 7445 Feb 11 7455 Feb 11 7465 Feb 11 7475 Feb 11 7485 Feb 11 7495 Feb 11 7505 Feb 11 7515 Feb 11 7525 Feb 11 7535 Feb 11 7545 Feb 11 7555 Feb 11 7565 Feb 11 7575 Feb 11 7585 Feb 11 7595 Feb 11 7605 Feb 11 7615 Feb 11 7625 Feb 11 7635 Feb 11 7645 Feb 11 7655 Feb 11 7665 Feb 11 7675 Feb 11 7685 Feb 11 7695 Feb 11 7705 Feb 11 7715 Feb 11 7725 Feb 11 7735 Feb 11 7745 Feb 11 7755 Feb 11 7765 Feb 11 7775 Feb 11 7785 Feb 11 7795 Feb 11 7805 Feb 11 7815 Feb 11 7825 Feb 11 7835 Feb 11 7845 Feb 11 7855 Feb 11 7865 Feb 11 7875 Feb 11 7885 Feb 11 7895 Feb 11 7905 Feb 11 7915 Feb 11 7925 Feb 11 7935 Feb 11 7945 Feb 11 7955 Feb 11 7965 Feb 11 7975 Feb 11 7985 Feb 11 7995 Feb 11 8005 Feb 11 8015 Feb 11 8025 Feb 11 8035 Feb 11 8045 Feb 11 8055 Feb 11 8065 Feb 11 8075 Feb 11 8085 Feb 11 8095 Feb 11 8105 Feb 11 8115 Feb 11 8125 Feb 11 8135 Feb 11 8145 Feb 11 8155 Feb 11 8165 Feb 11 8175 Feb 11 8185 Feb 11 8195 Feb 11 8205 Feb 11 8215 Feb 11 8225 Feb 11 8235 Feb 11 8245 Feb 11 8255 Feb 11 8265 Feb 11 8275 Feb 11 8285 Feb 11 8295 Feb 11 8305 Feb 11 8315 Feb 11 8325 Feb 11 8335 Feb 11 8345 Feb 11 8355 Feb 11 8365 Feb 11 8375 Feb 11 8385 Feb 11 8395 Feb 11 8405 Feb 11 8415 Feb 11 8425 Feb 11 8435 Feb 11 8445 Feb 11 8455 Feb 11 8465 Feb 11 8475 Feb 11 8485 Feb 11 8495 Feb 11 8505 Feb 11 8515 Feb 11 8525 Feb 11 8535 Feb 11 8545 Feb 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1885 Feb 12 1895 Feb 12 1905 Feb 12 1915 Feb 12 1925 Feb 12 1935 Feb 12 1945 Feb 12 1955 Feb 12 1965 Feb 12 1975 Feb 12 1985 Feb 12 1995 Feb 12 2005 Feb 12 2015 Feb 12 2025 Feb 12 2035 Feb 12 2045 Feb 12 2055 Feb 12 2065 Feb 12 2075 Feb 12 2085 Feb 12 2095 Feb 12 2105 Feb 12 2115 Feb 12 2125 Feb 12 2135 Feb 12 2145 Feb 12 2155 Feb 12 2165 Feb 12 2175 Feb 12 2185 Feb 12 2195 Feb 12 2205 Feb 12 2215 Feb 12 2225 Feb 12 2235 Feb 12 2245 Feb 12 2255 Feb 12 2265 Feb 12 2275 Feb 12 2285 Feb 12 2295 Feb 12 2305 Feb 12 2315 Feb 12 2325 Feb 12 2335 Feb 12 2345 Feb 12 2355 Feb 12 2365 Feb 12 2375 Feb 12 2385 Feb 12 2395 Feb 12 2405 Feb 12 2415 Feb