

pt. 5a.

# REPORT ON BOILERS.

No. 17426.

Site of writing Report 20th March, 1919. When handed in at Local Office 20th March, 1919. Port of Greenock  
No. in Survey held at Greenock Date, First Survey 30th Sept, 1918. Last Survey 20 March, 1919  
Reg. Book. on the Main (Number of Visits 55.) Gross Tons }  
(Stock Transport) Net }  
Master Built By whom built When built  
Engines made at By whom made When made  
Boilers made at Greenock By whom made John S Kincaid & Co Ltd When made 1919  
Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co of Scotland, Glasgow  
Letter for record 0 ) Total Heating Surface of Boilers 2253 sq ft Is forced draft fitted no No. and Description of  
Boilers One single ended Working Pressure 180 lb Tested by hydraulic pressure to 260 lb Date of test 20/3/19  
No. of Certificate 1376 Can each boiler be worked separately Area of fire grate in each boiler 61.87 No. and Description of  
Safety valves to each boiler Two Spring Area of each valve 7.07 sq Pressure to which they are adjusted  
Are they fitted with easing gear 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 Mean dia. of boilers 15.6 Length 10.6  
Material of shell plates Steel Thickness 1 1/2 Range of tensile strength 28-32 Are the shell plates welded or flanged  
Descrip. of riveting: cir. seams long. seams all chip steel Diameter of rivet holes in long. seams 1 5/16 Pitch of rivets 9/16  
Top of plates or width of butt straps 19 1/2 Per centages of strength of longitudinal joint rivets 88.22 Working pressure of shell by  
rules 182 lb Size of manhole in shell 16" x 12" Size of compensating ring any 1 1/2 No. and Description of Furnaces in each  
Boiler 1 Brighton Material Steel Outside diameter 49 1/4 Length of plain part top Thickness of plates crown  
Description of longitudinal joint welded No. of strengthening rings any Working pressure of furnace by the rules 185 lb Combustion chamber  
Details: Material Steel Thickness: Sides 2 1/32 Back 2 1/32 Top 2 1/32 Bottom 12 1/16 Pitch of stays to ditto: Sides 10-7 7/8 Back 9 1/8-8 1/8  
10-7 7/8 If stays are fitted with nuts or riveted heads none Working pressure by rules 180 lb Material of stays Steel Area at  
Smallest part 1.79 sq Area supported by each stay 79 sq Working pressure by rules 200 lb End plates in steam space: Material Steel Thickness 19 1/2  
No. of stays 21-20 How are stays secured all nut Working pressure by rules 180 lb Material of stays Steel Area at smallest part 1126 sq  
Area supported by each stay 430 sq Working pressure by rules 196 lb Material of Front plates at bottom Steel Thickness 1 Material of  
Rear back plate Steel Thickness 1 1/4 Greatest pitch of stays 13 Working pressure of plate by rules 180 lb Diameter of tubes 5 1/2  
No. of tubes 412 Material of tube plates Steel Thickness: Front 1 Back 12 1/16 Mean pitch of stays 9 Pitch across wide  
spaces 14 Working pressures by rules 183 lb Girders to Chamber tops: Material Steel Depth and thickness of  
Boiler at centre 8 7/8-1 1/2 Length as per rule 32.59 Distance apart 7 7/8 Number and pitch of Stays in each Two 10  
Working pressure by rules 217 lb Steam dome: description of joint to shell % of strength of joint  
Material Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
No. of rivets Working pressure of shell by rules Crown plates Thickness How stayed  
SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to  
of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler  
Material of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,  
FOR JOHN G. KINCAID & COY., LIMITED  
Robert Green Manufacturer.

progress of (1918) Sept. 30, Oct. 3, 7, 11, 16, 23, 31, Nov. 4, 7, 14, 18, 21, 26, Dec. 4, 11, 18, 25, 31, 1919, 1, 8, 15, 22, 29, 31, 1920, 5, 12, 19, 26, 31, 1921, 1, 8, 15, 22, 29, 31, 1922, 5, 12, 19, 26, 31, 1923, 1, 8, 15, 22, 29, 31, 1924, 5, 12, 19, 26, 31, 1925, 1, 8, 15, 22, 29, 31, 1926, 5, 12, 19, 26, 31, 1927, 1, 8, 15, 22, 29, 31, 1928, 5, 12, 19, 26, 31, 1929, 1, 8, 15, 22, 29, 31, 1930, 5, 12, 19, 26, 31, 1931, 1, 8, 15, 22, 29, 31, 1932, 5, 12, 19, 26, 31, 1933, 1, 8, 15, 22, 29, 31, 1934, 5, 12, 19, 26, 31, 1935, 1, 8, 15, 22, 29, 31, 1936, 5, 12, 19, 26, 31, 1937, 1, 8, 15, 22, 29, 31, 1938, 5, 12, 19, 26, 31, 1939, 1, 8, 15, 22, 29, 31, 1940, 5, 12, 19, 26, 31, 1941, 1, 8, 15, 22, 29, 31, 1942, 5, 12, 19, 26, 31, 1943, 1, 8, 15, 22, 29, 31, 1944, 5, 12, 19, 26, 31, 1945, 1, 8, 15, 22, 29, 31, 1946, 5, 12, 19, 26, 31, 1947, 1, 8, 15, 22, 29, 31, 1948, 5, 12, 19, 26, 31, 1949, 1, 8, 15, 22, 29, 31, 1950, 5, 12, 19, 26, 31, 1951, 1, 8, 15, 22, 29, 31, 1952, 5, 12, 19, 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12, 19, 26, 31, 1991, 1, 8, 15, 22, 29, 31, 1992, 5, 12, 19, 26, 31, 1993, 1, 8, 15, 22, 29, 31, 1994, 5, 12, 19, 26, 31, 1995, 1, 8, 15, 22, 29, 31, 1996, 5, 12, 19, 26, 31, 1997, 1, 8, 15, 22, 29, 31, 1998, 5, 12, 19, 26, 31, 1999, 1, 8, 15, 22, 29, 31, 2000, 5, 12, 19, 26, 31, 2001, 1, 8, 15, 22, 29, 31, 2002, 5, 12, 19, 26, 31, 2003, 1, 8, 15, 22, 29, 31, 2004, 5, 12, 19, 26, 31, 2005, 1, 8, 15, 22, 29, 31, 2006, 5, 12, 19, 26, 31, 2007, 1, 8, 15, 22, 29, 31, 2008, 5, 12, 19, 26, 31, 2009, 1, 8, 15, 22, 29, 31, 2010, 5, 12, 19, 26, 31, 2011, 1, 8, 15, 22, 29, 31, 2012, 5, 12, 19, 26, 31, 2013, 1, 8, 15, 22, 29, 31, 2014, 5, 12, 19, 26, 31, 2015, 1, 8, 15, 22, 29, 31, 2016, 5, 12, 19, 26, 31, 2017, 1, 8, 15, 22, 29, 31, 2018, 5, 12, 19, 26, 31, 2019, 1, 8, 15, 22, 29, 31, 2020, 5, 12, 19, 26, 31, 2021, 1, 8, 15, 22, 29, 31, 2022, 5, 12, 19, 26, 31, 2023, 1, 8, 15, 22, 29, 31, 2024, 5, 12, 19, 26, 31, 2025, 1, 8, 15, 22, 29, 31, 2026, 5, 12, 19, 26, 31, 2027, 1, 8, 15, 22, 29, 31, 2028, 5, 12, 19, 26, 31, 2029, 1, 8, 15, 22, 29, 31, 2030, 5, 12, 19, 26, 31, 2031, 1, 8, 15, 22, 29, 31, 2032, 5, 12, 19, 26, 31, 2033, 1, 8, 15, 22, 29, 31, 2034, 5, 12, 19, 26, 31, 2035, 1, 8, 15, 22, 29, 31, 2036, 5, 12, 19, 26, 31, 2037, 1, 8, 15, 22, 29, 31, 2038, 5, 12, 19, 26, 31, 2039, 1, 8, 15, 22, 29, 31, 2040, 5, 12, 19, 26, 31, 2041, 1, 8, 15, 22, 29, 31, 2042, 5, 12, 19, 26, 31, 2043, 1, 8, 15, 22, 29, 31, 2044, 5, 12, 19, 26, 31, 2045, 1, 8, 15, 22, 29, 31, 2046, 5, 12, 19, 26, 31, 2047, 1, 8, 15, 22, 29, 31, 2048, 5, 12, 19, 26, 31, 2049, 1, 8, 15, 22, 29, 31, 2050, 5, 12, 19, 26, 31, 2051, 1, 8, 15, 22, 29, 31, 2052, 5, 12, 19, 26, 31, 2053, 1, 8, 15, 22, 29, 31, 2054, 5, 12, 19, 26, 31, 2055, 1, 8, 15, 22, 29, 31, 2056, 5, 12, 19, 26, 31, 2057, 1, 8, 15, 22, 29, 31, 2058, 5, 12, 19, 26, 31, 2059, 1, 8, 15, 22, 29, 31, 2060, 5, 12, 19, 26, 31, 2061, 1, 8, 15, 22, 29, 31, 2062, 5, 12, 19, 26, 31, 2063, 1, 8, 15, 22, 29, 31, 2064, 5, 12, 19, 26, 31, 2065, 1, 8, 15, 22, 29, 31, 2066, 5, 12, 19, 26, 31, 2067, 1, 8, 15, 22, 29, 31, 2068, 5, 12, 19, 26, 31, 2069, 1, 8, 15, 22, 29, 31, 2070, 5, 12, 19, 26, 31, 2071, 1, 8, 15, 22, 29, 31, 2072, 5, 12, 19, 26, 31, 2073, 1, 8, 15, 22, 29, 31, 2074, 5, 12, 19, 26, 31, 2075, 1, 8, 15, 22, 29, 31, 2076, 5, 12, 19, 26, 31, 2077, 1, 8, 15, 22, 29, 31, 2078, 5, 12, 19, 26, 31, 2079, 1, 8, 15, 22, 29, 31, 2080, 5, 12, 19, 26, 31, 2081, 1, 8, 15, 22, 29, 31, 2082, 5, 12, 19, 26, 31, 2083, 1, 8, 15, 22, 29, 31, 2084, 5, 12, 19, 26, 31, 2085, 1, 8, 15, 22, 29, 31, 2086, 5, 12, 19, 26, 31, 2087, 1, 8, 15, 22, 29, 31, 2088, 5, 12, 19, 26, 31, 2089, 1, 8, 15, 22, 29, 31, 2090, 5, 12, 19, 26, 31, 2091, 1, 8, 15, 22, 29, 31, 2092, 5, 12, 19, 26, 31, 2093, 1, 8, 15, 22, 29, 31, 2094, 5, 12, 19, 26, 31, 2095, 1, 8, 15, 22, 29, 31, 2096, 5, 12, 19, 26, 31, 2097, 1, 8, 15, 22, 29, 31, 2098, 5, 12, 19, 26, 31, 2099, 1, 8, 15, 22, 29, 31, 2100, 5, 12, 19, 26, 31, 2101, 1, 8, 15, 22, 29, 31, 2102, 5, 12, 19, 26, 31, 2103, 1, 8, 15, 22, 29, 31, 2104, 5, 12, 19, 26, 31, 2105, 1, 8, 15, 22, 29, 31, 2106, 5, 12, 19, 26, 31, 2107, 1, 8, 15, 22, 29, 31, 2108, 5, 12, 19, 26, 31, 2109, 1, 8, 15, 22, 29, 31, 2110, 5, 12, 19, 26, 31, 2111, 1, 8, 15, 22, 29, 31, 2112, 5, 12, 19, 26, 31, 2113, 1, 8, 15, 22, 29, 31, 2114, 5, 12, 19, 26, 31, 2115, 1, 8, 15, 22, 29, 31, 2116, 5, 12, 19, 26, 31, 2117, 1, 8, 15, 22, 29, 31, 2118, 5, 12, 19, 26, 31, 2119, 1, 8, 15, 22, 29, 31, 2120, 5, 12, 19, 26, 31, 2121, 1, 8, 15, 22, 29, 31, 2122, 5, 12, 19, 26, 31, 2123, 1, 8, 15, 22, 29, 31, 2124, 5, 12, 19, 26, 31, 2125, 1, 8, 15, 22, 29, 31, 2126, 5, 12, 19, 26, 31, 2127, 1, 8, 15, 22, 29, 31, 2128, 5, 12, 19, 26, 31, 2129, 1, 8, 15, 22, 29, 31, 2130, 5, 12, 19, 26, 31, 2131, 1, 8, 15, 22, 29, 31, 2132, 5, 12, 19, 26, 31, 2133, 1, 8, 15, 22, 29, 31, 2134, 5, 12, 19, 26, 31, 2135, 1, 8, 15, 22, 29, 31, 2136, 5, 12, 19, 26, 31, 2137, 1, 8, 15, 22, 29, 31, 2138, 5, 12, 19, 26, 31, 2139, 1, 8, 15, 22, 29, 31, 2140, 5, 12, 19, 26, 31, 2141, 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2179, 1, 8, 15, 22, 29, 31, 2180, 5, 12, 19, 26, 31, 2181, 1, 8, 15, 22, 29, 31, 2182, 5, 12, 19, 26, 31, 2183, 1, 8, 15, 22, 29, 31, 2184, 5, 12, 19, 26, 31, 2185, 1, 8, 15, 22, 29, 31, 2186, 5, 12, 19, 26, 31, 2187, 1, 8, 15, 22, 29, 31, 2188, 5, 12, 19, 26, 31, 2189, 1, 8, 15, 22, 29, 31, 2190, 5, 12, 19, 26, 31, 2191, 1, 8, 15, 22, 29, 31, 2192, 5, 12, 19, 26, 31, 2193, 1, 8, 15, 22, 29, 31, 2194, 5, 12, 19, 26, 31, 2195, 1, 8, 15, 22, 29, 31, 2196, 5, 12, 19, 26, 31, 2197, 1, 8, 15, 22, 29, 31, 2198, 5, 12, 19, 26, 31, 2199, 1, 8, 15, 22, 29, 31, 2200, 5, 12, 19, 26, 31, 2201, 1, 8, 15, 22, 29, 31, 2202, 5, 12, 19, 26, 31, 2203, 1, 8, 15, 22, 29, 31, 2204, 5, 12, 19, 26, 31, 2205, 1, 8, 15, 22, 29, 31, 2206, 5, 12, 19, 26, 31, 2207, 1, 8, 15, 22, 29, 31, 2208, 5, 12, 19, 26, 31, 2209, 1, 8, 15, 22, 29, 31, 2210, 5, 12, 19, 26, 31, 2211, 1, 8, 15, 22, 29, 31, 2212, 5, 12, 19, 26, 31, 2213, 1, 8, 15, 22, 29, 31, 2214, 5, 12, 19, 26, 31, 2215, 1, 8, 15, 22, 29, 31, 2216, 5, 12, 19, 26, 31, 2217, 1, 8, 15, 22, 29, 31, 2218, 5, 12, 19, 26, 31, 2219, 1, 8, 15, 22, 29, 31, 2220, 5, 12, 19, 26, 31, 2221, 1, 8, 15, 22, 29, 31, 2222, 5, 12, 19, 26, 31, 2223, 1, 8, 15, 22, 29, 31, 2224, 5, 12, 19, 26, 31, 2225, 1, 8, 15, 22, 29, 31, 2226, 5, 12, 19, 26, 31, 2227, 1, 8, 15, 22, 29, 31, 2228, 5, 12, 19, 26, 31, 2229, 1, 8, 15, 22, 29, 31, 2230, 5, 12, 19, 26, 31, 2231, 1, 8, 15, 22, 29, 31, 2232, 5, 12, 19, 26, 31, 2233, 1, 8, 15, 22, 29, 31, 2234, 5, 12, 19, 26, 31, 2235, 1, 8, 15, 22, 29, 31, 2236, 5, 12, 19, 26, 31, 2237, 1, 8, 15, 22, 29, 31, 2238, 5, 12, 19, 26, 31, 2239, 1, 8, 15, 22, 29, 31, 2240, 5, 12, 19, 26, 31, 2241, 1, 8, 15, 22, 29, 31, 2242, 5, 12, 19, 26, 31, 2243, 1, 8, 15, 22, 29, 31, 2244, 5, 12, 19, 26, 31, 2245, 1, 8, 15, 22, 29, 31, 2246, 5, 12, 19, 26, 31, 2247, 1, 8, 15, 22, 29, 31, 2248, 5, 12, 19, 26, 31, 2249, 1, 8, 15, 22, 29, 31, 2250, 5, 12, 19, 26, 31, 2251, 1, 8, 15, 22, 29, 31, 2252, 5, 12, 19, 26, 31, 2253, 1, 8, 15, 22, 29, 31, 2254, 5, 12, 19, 26, 31, 2255, 1, 8, 15, 22, 29, 31, 2256, 5, 12, 19, 26, 31, 2257, 1, 8, 15, 22, 29, 31, 2258, 5, 12, 19, 26, 31, 2259, 1, 8, 15, 22, 29, 31, 2260, 5, 12, 19, 26, 31, 2261, 1, 8, 15, 22, 29, 31, 2262, 5, 12, 19, 26, 31, 2263, 1, 8, 15, 22, 29, 31, 2264, 5, 12, 19, 26, 31, 2265, 1, 8, 15, 22, 29, 31, 2266, 5, 12, 19, 26, 31, 2267, 1, 8, 15, 22, 29, 31, 2268, 5, 12, 19, 26, 31, 2269, 1, 8, 15, 22, 29, 31, 2270, 5, 12, 19, 26, 31, 2271, 1, 8, 15, 22, 29, 31, 2272, 5, 12, 19, 26, 31, 2273, 1, 8, 15, 22, 29, 31, 2274, 5, 12, 19, 26, 31, 2275, 1, 8, 15, 22, 29, 31, 2276, 5, 12, 19, 26, 31, 2277, 1, 8, 15, 22, 29, 31, 2278, 5, 12, 19, 26, 31, 2279, 1, 8, 15, 22, 29, 31, 2280, 5, 12, 19, 26, 31, 2281, 1, 8, 15, 22, 29, 31, 2282, 5, 12, 19, 26, 31, 2283, 1, 8, 15, 22, 29, 31, 2284, 5, 12, 19, 26, 31, 2285, 1, 8, 15, 22, 29, 31, 2286, 5, 12, 19, 26, 31, 2287, 1, 8, 15, 22, 29, 31, 2288, 5, 12, 19, 26, 31, 2289, 1, 8, 15, 22, 29, 31, 2290, 5, 12, 19, 26, 31, 2291, 1, 8, 15, 22, 29, 31, 2292, 5, 12, 19, 26, 31, 2293, 1, 8, 15, 22, 29, 31, 2294, 5, 12, 19, 26, 31, 2295, 1, 8, 15, 22, 29, 31, 2296, 5, 12, 19, 26, 31, 2297, 1, 8, 15, 22, 29, 31, 2298, 5, 12, 19, 26, 31, 2299, 1, 8, 15, 22, 29, 31, 2300, 5, 12, 19, 26, 31, 2301, 1, 8, 15, 22, 29, 31, 2302, 5, 12, 19, 26, 31, 2303, 1, 8, 15, 22, 29, 31, 2304, 5, 12, 19, 26, 31, 2305, 1, 8, 15, 22, 29, 31, 2306, 5, 12, 19, 26, 31, 2307, 1, 8, 15, 22, 29, 31, 2308, 5, 12, 19, 26, 31, 2309, 1, 8, 15, 22, 29, 31, 2310, 5, 12, 19, 26, 31, 2311, 1, 8, 15, 22, 29, 31, 2312, 5, 12, 19, 26, 31, 2313, 1, 8, 15, 22, 29, 31, 2314, 5, 12,