

Rpt. 4.

## REPORT ON MACHINERY

No. 36856

THU - MAY 1917

Date of writing Report 1-5-1917 When handed in at Local Office 2-5-1917 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 27th Nov. 1915 Last Survey 23-4-1917  
Reg. Book. on the Twin Screw oil Tank Steamer RUMOL (Number of Visits 142)

Master Built at Glasgow By whom built Russell & Co. Tons { Gross Not  
Engines made at Glasgow By whom made D Rowan & Co. When built 1917  
Boilers made at Glasgow By whom made D. when made 1917

Registered Horse Power Owners British Admiralty Port belonging to  
Nom. Horse Power as per Section 28 1124 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 6 No. of Cranks 6  
Dia. of Cylinders 26-42½-70 Length of Stroke 45 Revs. per minute Dia. of Screw shaft 14.08 as per rule 14.8 Material of screw shaft Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight in the propeller boss Yes If the liner is in more than one length are the joints burned Yes If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If two liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 6-0

Dia. of Tunnel shaft 13.17 as per rule 13.8 Dia. of Crank shaft journals 13.83 as per rule 14.2 Dia. of Crank pin 14.3 Size of Crank webs 9½ Dia. of thrust shaft under collars 14.5 Dia. of screw 15-6 Pitch of Screw 18-0 No. of Blades 3 State whether moveable No Total surface 69.4

No. of Feed pumps 2 Diameter of ditto 11 (in) Stroke 26 Can one be overhauled while the other is at work Yes  
No. of Bilge pumps 2 Diameter of ditto 8 Stroke 21 Can one be overhauled while the other is at work Yes

No. of Donkey Engines Two Sizes of Pumps 15½ x 11 x 21 — 10 x 8 x 18 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room Two 3½ — ABR Two 3½ — Two 10 — FBR Two 3½ In Holds, &c. Two 18½ x 12½ x 18 inch

Coffin dam in each Two 4 — Two 3 Injection also on bilge pump at end of vessel 18½ x 12½ x 18 inch  
No. of Bilge Injections 2 sizes 14 Connected to condenser, or to circulating pump CP Is a separate Donkey Suction fitted in Engine room & size Yes 5

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes  
Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line Below  
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What pipes are carried through the bunkers Yes How are they protected Yes  
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes  
Dates of examination of completion of fitting of Sea Connections See at Greenock of Stern Tube See at Greenock of Screw shaft and Propeller See at Greenock

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door No door worked from entrance from above  
BOILERS, &c.—(Letter for record S) Manufacturers of Steel Plates Braidmore & Co. Spencer & Co. Bess & Colville & Son

Total Heating Surface of Boilers 17730 ft² Is Forced Draft fitted Yes No. and Description of Boilers Six Cyl. Single Ended  
Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 15-5-16 No. of Certificate 134217

Can each boiler be worked separately Yes Area of fire grate in each boiler oil burners No. and Description of Safety Valves to each boiler Double Spring Area of each valve 12-56 Pressure to which they are adjusted 205 Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 18 Mean dia. of boilers 15-6 Length 12-0 Material of shell plates S  
Thickness 1½ Range of tensile strength 30 to 34 Are the shell plates welded or flanged Yes Descrip. of riveting: cir. seams D lap

long. seams Double Strap Diameter of rivet holes in long. seams 1½ Pitch of rivets 10½ Lap of plates or width of butt straps 22  
Per centages of strength of longitudinal joint rivets 89 Working pressure of shell by rules 232 Size of manholes in shell 16 x 12

Size of compensating ring 3-2 x 2-10 x 1½ No. and Description of Furnaces in each boiler 3 Deighton Material S Outside diameter 49½  
Length of plain part top Thickness of plates crown 4.3 Description of longitudinal joint Weld No. of strengthening rings 1

Working pressure of furnace by the rules 223 Combustion chamber plates: Material S Thickness: Sides 25 Back 25 Top 25 Bottom 1  
Pitch of stays to ditto: Sides 10½ x 9 Back 10½ x 8 Top 10½ x 8 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 219

Material of stays S Diameter at smallest part 2-07 Area supported by each stay 94 Working pressure by rules 200 End plates in steam space  
Material S Thickness 1½ Pitch of stays 18½ x 21½ How are stays secured D Nut Working pressure by rules 210 Material of stays S

Diameter at smallest part 8-29 Area supported by each stay 393 Working pressure by rules 219 Material of Front plates at bottom S  
Thickness 7/8 Material of Lower back plate S Thickness 7/8 Greatest pitch of stays as per plan Working pressure of plate by rules 200

Diameter of tubes 2½ Pitch of tubes 35½ x 35½ Material of tube plates S Thickness: Front 61 Back 3 Mean pitch of stays 9 5/32  
Pitch across wide water spaces 13½ Working pressures by rules 203 Girders to Chamber tops: Material S Depth and thickness of girder at centre Two 11 x 15 Length as per rule 37½ Distance apart 10 3/4 Number and pitch of stays in each 3 8 3/4

Working pressure by rules 208 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

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



IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR.

State the articles supplied:— Two propellers, One tail shaft, 1/3 Crank Shaft, Two top end, Two bottom end, Two main bearings, One set coupling bolts, Connecting top & bottom bushes, Main bearing bush, piston rod, Recumbent rod, Recumbent rod, assorted bolts & nuts, pump valves, Condenser tubes, boiler tubes, some iron bar & numerous small gear.

The foregoing is a correct description,

for David Rowan & Co. Manufacturer.

Dates of Survey while building: During progress of work in shops: 1915 Dec. 2, 1916 Dec. 1, 1917 Jan. 4, 1918 Jan. 14, 1919 Jan. 21, 1920 Jan. 28, 1921 Feb. 4, 1922 Feb. 11, 1923 Feb. 18, 1924 Feb. 25, 1925 Mar. 4, 1926 Mar. 11, 1927 Mar. 18, 1928 Mar. 25, 1929 Apr. 1, 1930 Apr. 8, 1931 Apr. 15, 1932 Apr. 22, 1933 May 6, 1934 May 13, 1935 May 20, 1936 May 27, 1937 Jun 3, 1938 Jun 10, 1939 Jun 17, 1940 Jun 24, 1941 Jul 1, 1942 Jul 8, 1943 Jul 15, 1944 Jul 22, 1945 Aug 5, 1946 Aug 12, 1947 Aug 19, 1948 Aug 26, 1949 Sep 2, 1950 Sep 9, 1951 Sep 16, 1952 Sep 23, 1953 Oct 7, 1954 Oct 14, 1955 Oct 21, 1956 Oct 28, 1957 Nov 4, 1958 Nov 11, 1959 Nov 18, 1960 Nov 25, 1961 Dec 2, 1962 Dec 9, 1963 Dec 16, 1964 Dec 23, 1965 Jan 6, 1966 Jan 13, 1967 Jan 20, 1968 Jan 27, 1969 Feb 3, 1970 Feb 10, 1971 Feb 17, 1972 Feb 24, 1973 Mar 3, 1974 Mar 10, 1975 Mar 17, 1976 Mar 24, 1977 Apr 7, 1978 Apr 14, 1979 Apr 21, 1980 Apr 28, 1981 May 5, 1982 May 12, 1983 May 19, 1984 May 26, 1985 Jun 2, 1986 Jun 9, 1987 Jun 16, 1988 Jun 23, 1989 Jun 30, 1990 Jul 7, 1991 Jul 14, 1992 Jul 21, 1993 Jul 28, 1994 Aug 4, 1995 Aug 11, 1996 Aug 18, 1997 Aug 25, 1998 Sep 1, 1999 Sep 8, 2000 Sep 15, 2001 Sep 22, 2002 Sep 29, 2003 Oct 6, 2004 Oct 13, 2005 Oct 20, 2006 Oct 27, 2007 Nov 3, 2008 Nov 10, 2009 Nov 17, 2010 Nov 24, 2011 Dec 1, 2012 Dec 8, 2013 Dec 15, 2014 Dec 22, 2015 Dec 29, 2016 Jan 5, 2017 Jan 12, 2018 Jan 19, 2019 Jan 26, 2020 Feb 2, 2021 Feb 9, 2022 Feb 16, 2023 Feb 23, 2024 Mar 1, 2025 Mar 8, 2026 Mar 15, 2027 Mar 22, 2028 Mar 29, 2029 Apr 5, 2030 Apr 12, 2031 Apr 19, 2032 Apr 26, 2033 May 3, 2034 May 10, 2035 May 17, 2036 May 24, 2037 May 31, 2038 Jun 7, 2039 Jun 14, 2040 Jun 21, 2041 Jun 28, 2042 Jul 5, 2043 Jul 12, 2044 Jul 19, 2045 Jul 26, 2046 Aug 2, 2047 Aug 9, 2048 Aug 16, 2049 Aug 23, 2050 Aug 30, 2051 Sep 6, 2052 Sep 13, 2053 Sep 20, 2054 Sep 27, 2055 Oct 4, 2056 Oct 11, 2057 Oct 18, 2058 Oct 25, 2059 Nov 1, 2060 Nov 8, 2061 Nov 15, 2062 Nov 22, 2063 Nov 29, 2064 Dec 6, 2065 Dec 13, 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