

REPORT ON MACHINERY.

No. 76680

Received at London Office 4 MAY 1923

Date of writing Report May 1st 1923 When handed in at Local Office May 2nd 1923 Port of Newcastle on Tyne
 No. in Survey held at Newcastle on Tyne Date, First Survey Oct 4th 1919 Last Survey April 28th 1923
 Reg. Book. 61693 on the TWIN SCREW STEAMER "MONGOLIA" (Number of Visits 344)
 Tons { Gross 16385
 Net 10255
 Master ✓ Built at Newcastle on Tyne By whom built Sir W. G. Armstrong Whitworth & Co. Ltd. when built 1913
 Engines made at Newcastle on Tyne By whom made Sir W. G. Armstrong Whitworth & Co. Ltd. when made 1913
 Boilers made at Newcastle on Tyne By whom made Sir W. G. Armstrong Whitworth & Co. Ltd. when made 1913
 Registered Horse Power ✓ Owners Pennine & Oriental S. N. Coy. Ltd. Port belonging to London
 Shaft Horse Power at Full Power 13000 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes
2567 ✓

TURBINE ENGINES, &c.—Description of Engines Turbines with Double Reduction Gearing No. of Turbines 6
 Diameter of Rotor Shaft Journals, H.P. IP 5" L.P. 8" Diameter of Pinion Shafts H.P. IP 5" L.P. 8" 2nd 16"
 Diameter of Journals 2nd 16" Distance between Centres of Bearings 2nd 8' 8" Diameter of Pitch Circle H.P. IP 10' 11 1/2" L.P. 16' 6 1/2" 2nd 28' 3 1/2"
 Diameter of Wheel Shafts 1st 16' 2" 2nd 20" Distance between Centres of Bearings 1st 8' 8" 2nd 8' 10" Diameter of Pitch Circle of Wheels 1st 45' 6 1/2" 2nd 121' 20 1/4"
 Width of Faces 1st 27 1/2" 2nd 52 1/2" Diameter of Thrust Shaft under Collars 19 1/8" Rule 1449 Diameter of Tunnel Shaft as per rule 16' 6 1/2"
 No. of Screw Shafts Two Diameter of same as per rule 14' 8" Diameter of Propeller 19' 6" Pitch of Propeller 20' 3"
 No. of Blades 3 State whether Moveable Yes Total Surface 114' 5 1/2" Diameter of Rotor Drum, H.P. L.P. Astern ✓
 Thickness at Bottom of Groove, H.P. L.P. Astern ✓ Revs. per Minute at Full Power, Turbine L.P. 1750 Propeller 90

PARTICULARS OF BLADING.

	H.P.			L.P.			ASTERN.		
	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
1ST EXPANSION	1 1/2"	18 1/2"	8	3 1/2"	43 1/2"	4	1 1/2"	34 1/2"	2
2ND	1 3/4"	20 1/2"	7	4 1/4"	45 1/2"	4	1 1/2"	50 1/2"	2
3RD	1 3/4"	22"	6	5 1/2"	48"	4	1 1/4"	44 1/2"	1
4TH	1 1/2"	24 1/2"	5	3 1/2"	61 1/2"	2	2 1/2"	49"	1
5TH	2 1/2"	23"	6	4 1/4"	63 1/2"	2	3 1/2"	51"	3
6TH	2 1/2"	25 1/2"	5	5 1/2"	65"	1			
7TH	3"	28"	4	6 1/2"	67"	1			
8TH	3"	32"	3	7 1/2"	69 1/2"	1			
				9 1/2"	72 1/2"	3			

No. and size of Feed pumps 2: Meier 15 1/2" x 11 1/2" x 24"
 No. and size of Bilge pumps 2: Simpson 10 1/2" x 13" x 24" Other Pumps: 12" x 9" x 21" 10 1/2" x 13" x 24"
 No. and size of Bilge suction in Engine Room 2-3 1/2" 8" Room aft. 2-3 1/2" 8" Forward 2" main wing. One 8" Boiler room in drain hat.
suction, and one 3 1/2" tunnel well suction. In Holds, &c. Holds No. 1-2-3-4-5-6-7 each 2-3 1/2" dia. One 3 1/2" after tunnel

No. of Bilge Injections 2 sizes 16" Connected to condenser, or to circulating pump ✓ Is a separate Donkey Suction fitted in Engine Room & size Yes one 8"
 Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room 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 Part 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 None How are they protected ✓
 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
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from the upper deck

BOILERS, &c.—(Letter for record \$) Manufacturers of Steel J. Spencer & Sons
 Total Heating Surface of Boilers 32490 Is Forced Draft fitted Yes No. and Description of Boilers 3 Double 4 Single End Cy. Lined Steel
 Working Pressure 200 lbs Tested by hydraulic pressure to 350 lbs Date of test 1-8-22 28-8-22 No. of Certificate 9686 9685
 Can each boiler be worked separately Yes Area of fire grate in each boiler 150 No. and Description of Safety Valves to Particulars of Double End Boilers
 each boiler Three Spring Loaded Area of each valve 12.56 Pressure to which they are adjusted 205 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2-0" Mean dia. of boilers 14' 2" Length 20' 6" Material of shell plates Steel
 Thickness 1 1/2" Range of tensile strength 30/33 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Double & Triple Riveted
 long. seams O. B. S. Triple Rivet Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 10 1/2" Lap of plates or width of butt straps 6' 10 1/2"
 rivets 90% Per centages of strength of longitudinal joint plates 85% Working pressure of shell by rules 214 lbs Size of manhole in shell 16" x 12"
 Size of compensating ring 4" hole No. and Description of Furnaces in each Boiler Eight Material Steel Outside diameter 3' 8 1/4"
 Length of plain part top 4' 8" Thickness of plates crown 1 1/2" Description of longitudinal joint Weld No. of strengthening rings None
 bottom 1 1/2" Working pressure of furnace by the rules 240 lbs Combustion chamber plates: Material Steel Thickness: Sides 5" Back ✓ Top 5" Bottom 1"
 Pitch of stays to ditto: Sides 8 1/4" x 8" Back ✓ Top 8' 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 204 lbs
 Material of stays Steel Diameter at smallest part 1.73 Area supported by each stay 66" Working pressure by rules 209 lbs End plates in steam space
 Material Steel Thickness 1 1/4" Pitch of stays 21' 16 1/2" How are stays secured Double Nuts & Washers Working pressure by rules 208 lbs Material of stays Steel
 Diameter at smallest part 3" Area supported by each stay 346" Working pressure by rules 212 lbs Material of Front plates at bottom Steel
 Thickness 1" Material of Lower back plate ✓ Thickness ✓ Greatest pitch of stays ✓ Working pressure of plate by rules ✓
 Diameter of tubes 2 3/4" Pitch of tubes 4" x 4" Material of tube plates Steel Thickness: Front 1 1/4" Back 3/4" Mean pitch of stays 9"
 Pitch across wide water spaces 14 1/2" Working pressures by rules 202 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 8 1/2" x 1 1/4" Length as per rule 54 1/2" Distance apart 8" Number and pitch of stay in each 6' 8"
 Working pressure by rules 359 lbs Steam dome: description of joint to shell Weld % of strength of joint ✓ Diameter ✓
 Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diameter of rivet holes ✓ Pitch of rivets ✓
 Working pressure of shell by rules ✓ Crown plates: Thickness ✓ How stayed ✓

SUPERHEATER. Type *A.S. Marley Co's* Date of Approval of Plan *Standard* Tested by Hydraulic Pressure to *400*
Date of Test *7/3/22 to 31/8/22* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *Yes*
Diameter of Safety Valve *2 1/2"* Pressure to which each is adjusted *210 lbs* Is Easing Gear fitted *Yes*

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? *-*

SPARE GEAR. State the articles supplied:—

All those required by Section 32 of the rules, together with those recommended, and other additions. A complete list forwarded.

The foregoing is a correct description,

W. A. ARMSTRONG, WHITWORTH & CO. LIMITED

Manufacturer.

1919. Oct 4. Dec 11. 1920. Jan 5. 1921. Feb 12. 1922. Mar 5. 1923. Apr 12. 1924. May 19. 1925. Jun 26. 1926. Jul 24. 1927. Aug 31. 1928. Sep 28. 1929. Oct 25. 1930. Nov 22. 1931. Dec 19. 1932. Jan 16. 1933. Feb 13. 1934. Mar 10. 1935. Apr 7. 1936. May 4. 1937. Jun 1. 1938. Jul 29. 1939. Aug 26. 1940. Sep 23. 1941. Oct 20. 1942. Nov 17. 1943. Dec 14. 1944. Jan 11. 1945. Feb 8. 1946. Mar 5. 1947. Apr 2. 1948. May 30. 1949. Jun 27. 1950. Jul 24. 1951. Aug 21. 1952. Sep 18. 1953. Oct 15. 1954. Nov 12. 1955. Dec 9. 1956. Jan 6. 1957. Feb 3. 1958. Mar 2. 1959. Apr 30. 1960. May 27. 1961. Jun 24. 1962. Jul 21. 1963. Aug 18. 1964. Sep 15. 1965. Oct 12. 1966. Nov 9. 1967. Dec 6. 1968. Jan 3. 1969. Feb 3. 1970. Mar 2. 1971. Apr 30. 1972. May 27. 1973. Jun 24. 1974. Jul 21. 1975. Aug 18. 1976. Sep 15. 1977. Oct 12. 1978. Nov 9. 1979. Dec 6. 1980. Jan 3. 1981. Feb 3. 1982. Mar 2. 1983. Apr 30. 1984. May 27. 1985. Jun 24. 1986. Jul 21. 1987. Aug 18. 1988. Sep 15. 1989. Oct 12. 1990. Nov 9. 1991. Dec 6. 1992. Jan 3. 1993. Feb 3. 1994. Mar 2. 1995. Apr 30. 1996. May 27. 1997. Jun 24. 1998. Jul 21. 1999. Aug 18. 2000. Sep 15. 2001. Oct 12. 2002. Nov 9. 2003. Dec 6. 2004. Jan 3. 2005. Feb 3. 2006. Mar 2. 2007. Apr 30. 2008. May 27. 2009. Jun 24. 2010. Jul 21. 2011. Aug 18. 2012. Sep 15. 2013. Oct 12. 2014. Nov 9. 2015. Dec 6. 2016. Jan 3. 2017. Feb 3. 2018. Mar 2. 2019. Apr 30. 2020. May 27. 2021. Jun 24. 2022. Jul 21. 2023. Aug 18. 2024. Sep 15. 2025. Oct 12. 2026. Nov 9. 2027. Dec 6. 2028. Jan 3. 2029. Feb 3. 2030. Mar 2. 2031. Apr 30. 2032. May 27. 2033. Jun 24. 2034. Jul 21. 2035. Aug 18. 2036. Sep 15. 2037. Oct 12. 2038. Nov 9. 2039. Dec 6. 2040. Jan 3. 2041. Feb 3. 2042. Mar 2. 2043. Apr 30. 2044. May 27. 2045. Jun 24. 2046. Jul 21. 2047. Aug 18. 2048. Sep 15. 2049. Oct 12. 2050. Nov 9. 2051. Dec 6. 2052. Jan 3. 2053. Feb 3. 2054. Mar 2. 2055. Apr 30. 2056. May 27. 2057. Jun 24. 2058. Jul 21. 2059. Aug 18. 2060. Sep 15. 2061. Oct 12. 2062. Nov 9. 2063. Dec 6. 2064. Jan 3. 2065. Feb 3. 2066. Mar 2. 2067. Apr 30. 2068. May 27. 2069. Jun 24. 2070. Jul 21. 2071. Aug 18. 2072. Sep 15. 2073. Oct 12. 2074. Nov 9. 2075. Dec 6. 2076. Jan 3. 2077. Feb 3. 2078. Mar 2. 2079. Apr 30. 2080. May 27. 2081. Jun 24. 2082. Jul 21. 2083. Aug 18. 2084. Sep 15. 2085. Oct 12. 2086. Nov 9. 2087. Dec 6. 2088. Jan 3. 2089. Feb 3. 2090. Mar 2. 2091. Apr 30. 2092. May 27. 2093. Jun 24. 2094. Jul 21. 2095. Aug 18. 2096. Sep 15. 2097. Oct 12. 2098. Nov 9. 2099. Dec 6. 2100. Jan 3. 2101. Feb 3. 2102. Mar 2. 2103. Apr 30. 2104. May 27. 2105. Jun 24. 2106. Jul 21. 2107. Aug 18. 2108. Sep 15. 2109. Oct 12. 2110. Nov 9. 2111. Dec 6. 2112. Jan 3. 2113. Feb 3. 2114. Mar 2. 2115. Apr 30. 2116. May 27. 2117. Jun 24. 2118. Jul 21. 2119. Aug 18. 2120. Sep 15. 2121. Oct 12. 2122. Nov 9. 2123. Dec 6. 2124. Jan 3. 2125. Feb 3. 2126. Mar 2. 2127. Apr 30. 2128. May 27. 2129. Jun 24. 2130. Jul 21. 2131. Aug 18. 2132. Sep 15. 2133. Oct 12. 2134. Nov 9. 2135. Dec 6. 2136. Jan 3. 2137. 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Oct 12. 2722. Nov 9. 2723. Dec 6. 2724. Jan 3. 2725. Feb 3. 2726. Mar 2. 2727. Apr 30. 2728. May 27. 2729. Jun 24. 2730. Jul 21. 2731. Aug 18. 2732. Sep 15. 2733. Oct 12. 2734. Nov 9. 2735. Dec 6. 2736. Jan 3. 2737. Feb 3. 2738. Mar 2. 2739. Apr 30. 2740. May 27. 2741. Jun 24. 2742. Jul 21. 2743. Aug 18. 2744. Sep 15. 2745. Oct 12. 2746. Nov 9. 2747. Dec 6. 2748. Jan 3. 2749. Feb 3. 2750. Mar 2. 2751. Apr 30. 2752. May 27. 2753. Jun 24. 2754. Jul 21. 2755. Aug 18. 2756. Sep 15. 2757. Oct 12. 2758. Nov 9. 2759. Dec 6. 2760. Jan 3. 2761. Feb 3. 2762. Mar 2. 2763. Apr 30. 2764. May 27. 2765. Jun 24. 2766. Jul 21. 2767. Aug 18. 2768. Sep 15. 2769. Oct 12. 2770. Nov 9. 2771. Dec 6. 2772. Jan 3. 2773. Feb 3. 2774. Mar 2. 2775. Apr 30. 2776. May 27. 2777. Jun 24. 2778. Jul 21. 2779. Aug 18. 2780. Sep 15. 2781. Oct 12. 2782. Nov 9. 2783. Dec 6. 2784. Jan 3. 2785. Feb 3. 2786. Mar 2. 2787. Apr 30. 2788. May 27. 2789. Jun 24. 2790. Jul 21. 2791. Aug 18. 2792. Sep 15. 2793. Oct 12. 2794. Nov 9. 2795. Dec 6. 2796. Jan 3. 2797. Feb 3. 2798. Mar 2. 2799. Apr 30. 2800. May 27. 2801. Jun 24. 2802. Jul 21. 2803. Aug 18. 2804. Sep 15. 2805. Oct 12. 2806. Nov 9. 2807. Dec 6. 2808. Jan 3. 2809. Feb 3. 2810. Mar 2. 2811. Apr 30. 2812. May 27. 2813. Jun 24. 2814. Jul 21. 2815. Aug 18. 2816. Sep 15. 2817. Oct 12. 2818. Nov 9. 2819. Dec 6. 2820. Jan 3. 2821. Feb 3. 2822. Mar 2. 2823. Apr 30. 2824. May 27. 2825. Jun 24. 2826. Jul 21. 2827. Aug 18. 2828. Sep 15. 2829. Oct 12. 2830. Nov 9. 2831. Dec 6. 2832. Jan 3. 2833. Feb 3. 2834. Mar 2. 2835. Apr 30. 2836. May 27. 2837. Jun 24. 2838. Jul 21. 2839. Aug 18. 2840. Sep 15. 2841. Oct 12. 2842. Nov 9. 2843. Dec 6. 2844. Jan 3. 2845. Feb 3. 2846. Mar 2. 2847. Apr 30. 2848. May 27. 2849. Jun 24. 2850. Jul 21. 2851. Aug 18. 2852. Sep 15. 2853. Oct 12. 2854. Nov 9. 2855. Dec 6. 2856. Jan 3. 2857. Feb 3. 2858. Mar 2. 2859. Apr 30. 2860. May 27. 2861. Jun 24. 2862. Jul 21. 2863. Aug 18. 2864. Sep 15. 2865. Oct 12. 2866. Nov 9. 2867. Dec 6. 2868. Jan 3. 2869. Feb 3. 2870. Mar 2. 2871. Apr 30. 2872. May 27. 2873. Jun 24. 2874. Jul 21. 2875. Aug 18. 2876. Sep 15. 2877. Oct 12. 2878. Nov 9. 2879. Dec 6. 2880. Jan 3. 2881. Feb 3. 2882. Mar 2. 2883. Apr 30. 2884. May 27. 2885. Jun 24. 2886. Jul 21. 2887. Aug 18. 2888. Sep 15. 2889. Oct 12. 2890. Nov 9. 2891. Dec 6. 2892. Jan 3. 2893. Feb 3. 2894. Mar 2. 2895. Apr 30. 2896. May 27. 2897. Jun 24. 2898. Jul 21. 2899. Aug 18. 2900. Sep 15. 2901. Oct 12. 2902. Nov 9. 2903. Dec 6. 2904. Jan 3. 2905. Feb 3. 2906. Mar 2. 2907. Apr 30. 2908. May 27. 2909. Jun 24. 2910. Jul 21. 2911. Aug 18. 2912. Sep 15. 2913. Oct 12. 2914. Nov 9. 2915. Dec 6. 2916. Jan 3. 2917. Feb 3. 2918. Mar 2. 2919. Apr 30. 2920. May 27. 2921. Jun 24. 2922. Jul 21. 2923. Aug 18. 2924. Sep 15. 2925. Oct 12. 2926. Nov 9. 2927. Dec 6. 2928. Jan 3. 2929. Feb 3. 2930. Mar 2. 2931. Apr 30. 2932. May 27. 2933. Jun 24. 2934. Jul 21. 2935. Aug 18. 2936. Sep 15. 2937. Oct 12. 2938. Nov 9. 2939. Dec 6. 2940. Jan 3. 2941. Feb 3. 2942. Mar 2. 2943. Apr 30. 2944. May 27. 2945. Jun 24. 2946. Jul 21. 2947. Aug 18. 2948. Sep 15. 2949. Oct 12. 2950. Nov 9. 2951. Dec 6. 2952. Jan 3. 2953. Feb 3. 2954. Mar 2. 2955. Apr 30. 2956. May 27. 2957. Jun 24. 2958. Jul 21. 2959. Aug 18. 2960. Sep 15. 2961. Oct 12. 2962. Nov 9. 2963. Dec 6. 2964. Jan 3. 2965. Feb 3. 2966. Mar 2. 2967. Apr 30. 2968. May 27. 2969. Jun 24. 2970. Jul 21. 2971. Aug 18. 2972. Sep 15. 2973. Oct 12. 2974. Nov 9. 2975. Dec 6. 2976. Jan 3. 2977. Feb 3. 2978. Mar 2. 2979. Apr 30. 2980. May 27. 2981. Jun 24. 2982. Jul 21. 2983. Aug 18. 2984. Sep 15. 2985. Oct 12. 2986. Nov 9. 2987. Dec 6. 2988. Jan 3. 2989. Feb 3. 2990. Mar 2. 2991. Apr 30. 2992. May 27. 2993. Jun 24. 2994. Jul 21. 2995. Aug 18. 2996. Sep 15. 2997. Oct 12. 2998. Nov 9. 2999. Dec 6. 3000. Jan 3. 3001. Feb 3. 3002. Mar 2. 3003. Apr 30. 3004. May 27. 3005. Jun 24. 3006. Jul 21. 3007. Aug 18. 3008. Sep 15. 3009. Oct 12. 3010. Nov 9. 3011. Dec 6. 3012. Jan 3. 3013. Feb 3. 3014. Mar 2. 3015. Apr 30. 3016. May 27. 3017. Jun 24. 3018. Jul 21. 3019. Aug 18. 3020. Sep 15. 3021. Oct 12. 3022. Nov 9. 3023. Dec 6. 3024. Jan 3. 3025. Feb 3. 3026. Mar 2. 3027. Apr 30. 3028. May 27. 3029. Jun 24. 3030. Jul 21. 3031. Aug 18. 3032. Sep 15. 3033. Oct 12. 3034. Nov 9. 3035. Dec 6. 3036. Jan 3. 3037. Feb 3. 3038.