

## REPORT ON MACHINERY.

No. 45740

18 NOV 1925

Received at London Office

Date of writing Report 7<sup>th</sup> Nov. 1925 When handed in at Local Office 7-11-25 Port of Glasgow  
 No. in Survey held at Dalmuir Date, First Survey 4.8.24 Last Survey 6<sup>th</sup> Nov. 1925  
 Reg. Book. on the Twin Screw "Conte Biancamano" (Number of Visits 114)  
 Master Built at Dalmuir By whom built W. Beardmore & Co. When built 1925  
 Engines made at Dalmuir By whom made W. Beardmore & Co. when made 1925  
 Boilers made at Dalmuir By whom made W. Beardmore & Co. when made 1925  
 Registered Horse Power 4421 Owners Lloyd Sabauds Soc. Anon. per azione Port belonging to Genoa  
 Shaft Horse Power at Full Power 24000 Is Refrigerating Machinery fitted for cargo purposes ☒ Is Electric Light fitted ☒

URBINE ENGINES, &c.—Description of Engines Parsons Turbines S. R. No. of Turbines 4  
 Diameter of Rotor Shaft Journals, H.P. 5 1/2" L.P. 9 1/4" Diameter of Pinion Shaft 6 5/8" - 6 1/2"  
 Diameter of Journals 7" - 8 1/2" Distance between Centres of Bearings 49 1/2" Diameter of Pitch Circle H.P. 10.855" L.P. 20.282" 2" R-29.344"  
 Diameter of Wheel Shaft 22" Distance between Centres of Bearings 9' - 11" Diameter of Pitch Circle of Wheel 125.815"  
 Width of Face 30" H.P. L.P. Diameter of Thrust Shaft under Collars 21 5/8" Diameter of Tunnel Shaft as per rule 20.6.24  
 as fitted 20 1/2"  
 No. of Screw Shafts 2 (continuous) Diameter of same as per rule 22" Diameter of Propeller 19' - 0" Pitch of Propeller 25' - 3"  
 as fitted 25' - 3"  
 No. of Blades 4 State whether Moveable ☒ Total Surface 130 ft<sup>2</sup> Diameter of Rotor Drum, H.P. 12' - 11" L.P. 5' - 2" astern 4' - 4"  
 Thickness at Bottom of Groove, H.P. Solid L.P. 1" Astern 1" Revs. per Minute at Full Power, Turbine H.P. 1565 Propeller 100

## 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.
ST EXPANSION	2 5/16" - 4 1/2"	3' - 1 1/2" - 3' - 3 1/8"	2 - Impulse	4"	4' - 4"	4 - Reaction	1 3/4" - 2 3/4" - 3 1/4"	5' - 5 1/2" - 5' - 7' - 5' - 8 1/2"	3 Impulse
ND	2 3/4"	1' - 11 3/4"	7 - Reaction	5 1/2"	4' - 6 1/4"	4 - "	1 1/8"	4' - 7 1/4"	2 Reaction
RD	3 3/8"	2' - 0 3/4"	6 - "	6 1/2"	4' - 9"	4 - "	3 1/4"	4' - 10 1/2"	2 - "
TH	3 7/16"	2' - 3 1/8"	5 - "	4 1/2"	5' - 11"	2 - "	4 5/8"	5' - 1 1/2"	1 - "
CH	3 5/8"	2' - 6 1/4"	4 - "	5 1/2"	6' - 1 1/4"	2 - "	4 5/8"	5' - 1 1/2"	1 - "
CH	4 5/8"	2' - 8 1/4"	4 - "	6 3/4"	6' - 3 1/2"	1 - "	4 5/8"	5' - 1 1/2"	1 - "
CH				7 7/8"	6' - 5 3/4"	1 - "			
CH				9 3/8"	6' - 8 3/4"	1 - "			
and size of Feed pumps	3 OFF 22" x 14" x 27" MAIN			9 5/8" x 11 1/4"	7' - 0 1/2"	1 - "			
and size of Bilge pumps	2 OFF 8" x 8" x 8"			10" x 11 1/4"	7' - 0 1/2"	1 - "			
and size of Bilge suction in Engine Room	4 - 3 1/2", F <sup>2</sup> BLR ROOM 2 - 2 1/2" AFT. 2 - 2 1/2"								

In Holds, &c. For 3 1/2" P.T.S. each hold, aft 3 1/2" P.T.S. from aft Comp.  
 Bilge Injections - 3 1/2" dia. from each, blanked off when oil burning  
 of Bilge Injections 2 sizes 18" Connected to bilge suction pump ☒ Is a separate Donkey Suction fitted in Engine Room & size ☒ 6"  
 all the bilge suction pipes fitted with ☒ mud boxes. ☒ Are the valves in Engine room always accessible ☒  
 all connections with the sea direct on the skin of the ship ☒ Are they Valves or Cocks ☒ Boche ☒  
 they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates ☒ Are the Discharge Pipes above or below the deep water line ☒ below  
 they each fitted with a Discharge Valve always accessible on the plating of the vessel ☒ Are the Blow Off Cocks fitted with a spigot and brass covering plate ☒ ☒  
 at pipes are carried through the bunkers ☒ How are they protected ☒  
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times ☒  
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges ☒  
 the Screw Shaft Tunnel watertight ☒ Is it fitted with a watertight door ☒ worked from Bridge ☒

BOILERS, &c.—(Letter for record 8) Manufacturers of Steel W. Beardmore & Co. L.  
 Heating Surface of Boilers 50240 Is Forced Draft fitted ☒ No. and Description of Boilers 70 & 258 2 - S.E.  
 Working Pressure 220 Tested by hydraulic pressure to 380 Date of test 20.3.25 24.3.25 No. of Certificate 16751. 16754.  
 each boiler be worked separately ☒ Area of fire grate in each boiler 73.5 ft<sup>2</sup> S.E. 147 ft<sup>2</sup> D.E. No. and Description of Safety Valves to  
 boiler 2 - high lift Area of each valve 7.068" Pressure to which they are adjusted 225 Are they fitted with easing gear ☒  
 least distance between boilers or uptakes and bunkers or woodwork ☒ Will clear Mean dia. of boilers 16' - 6" Length 11' - 3" Material of shell plates S.  
 thickness 1 5/8" Range of tensile strength 30 - 34 Are the shell plates welded or flanged ☒ Descrip. of riveting: cir. seams D.R.  
 g. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 5/8" Pitch of rivets 10 3/4" Lap of plates or width of butt straps 23 3/4"  
 rivets 85.3 Working pressure of shell by rules 233 Size of manhole in shell 21" x 17"  
 plates 84.8  
 of compensating ring 39" x 36" x 1 3/8" No. and Description of Furnaces in each Boiler 4 - ☒ Material S Outside diameter 41 1/4"  
 top crown 5/8" Description of longitudinal joint ☒ weld No. of strengthening rings ☒ none  
 bottom bottom 5/8"  
 Tons of pressure of furnace by the rules 221 Combustion chamber plates: Material S Thickness: Sides 7/8" Back 3/32" Top 7/8" Bottom 7/8"  
 of stays to ditto: Sides 9" x 8" Back 10" x 8" Top 9" x 8" If stays are fitted with nuts or riveted heads ☒ Working pressure by rules 221  
 of stays 8 Diameter at smallest part 1 3/4" Area supported by each stay 80" Working pressure by rules 227. End plates in steam space  
 630 Thickness 1 1/4" Pitch of stays 18 1/2" x 17" How are stays secured ☒ Working pressure by rules 231 Material of stays S  
 at smallest part 3 3/8" Area supported by each stay 315" Working pressure by rules 277 Material of Front plates at bottom S  
 thickness 15/16" Material of Lower back plate S Thickness 3/32" Greatest pitch of stays 15 1/4" x 8" Working pressure of plate by rules 261  
 of tubes 3" Pitch of tubes 4 1/4" x 4' 8" Material of tube plates Iron Thickness: Front 15/16" Back 27/32" Mean pitch of stays 10 1/2"  
 across wide water spaces 14" Working pressures by rules 228 Girders to Chamber tops: Material S Depth and  
 of girder at centre 9 1/8" x 1 1/2" Length as per rule 29 1/2" Distance apart 8" Number and pitch of stays in each 2 x 9"  
 of pressure by rules 306 Steam dome: description of joint to shell ☒ none of strength of joint Diameter of rivet holes Pitch of rivets  
 of shell plates Material Description of longitudinal joint Diameter of rivet holes Pitch of rivets  
 of pressure of shell by rules Crown plates: Thickness How stayed



SPARE GEAR. State the articles supplied:— *As per attached list.*

Manufacturer.

ENTER 18/11/25- Fitted for oil fuel 11.25 S.F. above 150 v.