

REPORT ON MACHINERY.

No. 41541

Received at London Office 30 NOV. 1921

Date of writing Report 25-11-1921 When handed in at Local Office 25-11-1921 Port of Glasgow
 No. in Survey held at Dumbarton Date, First Survey 19-2-1919 Last Survey 27-11-1921
 Reg. Book. on the S.S. "Cambria" (Number of Visits 73) Gross 3458.54
 Tons Net 1477.97

Master Built at Dumbarton By whom built L. & D. (1036) When built
 Engines made at Dumbarton By whom made L. & D. (819) when made 1921
 Boilers made at Dumbarton By whom made L. & D. (819) when made 1921
 Registered Horse Power Owners L. & D. Port belonging to Dublin
 Shaft Horse Power at Full Power 14500 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 71 HP 2714 2717

TURBINE ENGINES, &c.—Description of Engines Brown & Co. S. R. Grand Turbines No. of Turbines 2 H.P. 2 L.P.

Diameter of Rotor Shaft Journals, H.P. 5" L.P. 7" Diameter of Pinion Shaft 7"
 Diameter of Journals 7" Distance between Centres of Bearings 35 1/2" Diameter of Pitch Circle H.P. 8.57 L.P. 10.128
 Diameter of Wheel Shaft 13" Distance between Centres of Bearings 6' 3" Diameter of Pitch Circle of Wheel 28.43
 Width of Face 4 1/4" Diameter of Thrust Shaft under Collars 12 1/2" Diameter of Tunnel Shaft as fitted 12" (11.69 Rule)
 No. of Screw Shafts 2 Continuous Diameter of same as fitted 13 1/4" (12.51 Rule) Diameter of Propeller 9' 6" Pitch of Propeller 11' 0"
 No. of Blades 3 State whether Moveable No Total Surface 32 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 H.P. 2562 L.P. 2168 Propeller 280

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									
2ND									
3RD									
4TH									
5TH									
6TH									
7TH									
8TH									

No. and size of Feed pumps 3, 10" x 26"

No. and size of Bilge pumps 2, 8" x 9" x 10"

No. and size of Bilge suction in Engine Room (2) 3" (1) 3 1/2" (2) in each stokehold 3"

In Holds, &c. 1" in each hold 3"

No. of Bilge Injections 5 sizes 10" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine Room & size yes 3 1/2"

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 above

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 upper platform

BOILERS, &c.—(Letter for record (5) Manufacturers of Steel D. Colville & Sons (2) 23 section wide Babcock & Wilcox U.S.

Total Heating Surface of Boilers 33916 Is Forced Draft fitted yes No. and Description of Boilers 27125 " " 13305

Working Pressure 250 Tested by hydraulic pressure to 400 Date of test (3) 21/5/19 (3) 4/6/20 (3) 15/6/20 No. of Certificate 15326 15352

Can each boiler be worked separately yes Area of fire grate in each boiler 28' wide 125' (23) 105' No. and Description of Safety Valves to

each boiler 23 " 2 " Area of each valve 23 " 9.62 Pressure to which they are adjusted 205 Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork well clear Mean dia. of drums 3' 0" Length 23' 15" 2 1/2" Material of shell plates steel

Thickness 7/16" Range of tensile strength 26 to 30 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams d lap

long. seams d butt Diameter of rivet holes in long. seams 23/32 Pitch of rivets 23 " 3.133 Lap of plates or width of butt straps 8 1/2"

Per centages of strength of longitudinal joint rivets 98 Working pressure of shell by rules 218 Size of manhole in shell 15" x 11"

Size of compensating ring flanged No. and Description of Furnaces in each Boiler Material Outside diameter

Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space

Material Steel Thickness 3/4" x 1" Pitch of stays 22000 How are stays secured Working pressure by rules Material of stays

Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes 3 1/2" 1 1/2" Pitch of tubes 7" Material of tube plates steel Thickness: Front 3/8" Back Mean pitch of stays

Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

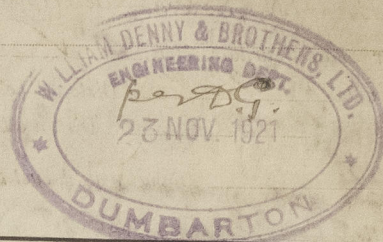
Working pressure by rules Steam dome: description of joint to shell 22000 % of strength of joint Diameter

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 *none* Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____
IS A DONKEY BOILER FITTED? *no* If so, is a report now forwarded? _____
SPARE GEAR. State the articles supplied:— *See list appended*

The foregoing is a correct description,



Dates of Survey while building: During progress of work in shops: 1919 Feb 19, 24 Mar 12, 20 Jun 23, 28 July 15, 16 Aug 5, 8, 13, 19, 28 Sep 18, 26 Oct 2 Nov 4, 13, 18, 27 Dec 5, 11, 26, 30 1920 Jan 13, 23, 27
During erection on board vessel: 30 Feb 3, 10, 13, 20, 26 Mar 2, 9, 12, 16, 19, 23, 29 Apr 13, 23, 29 May 14, 21, 25 Jun 1, 4, 8, 10, 18, 29 July 6, 31 Aug 6, 31 Sep 4, 10, 14, 24 Oct 1, 3, 5, 7, 12, 15, 22 Nov 2
Total No. of visits: 73.

Is the approved plan of main boiler forwarded herewith *no*

Dates of Examination of principal parts—Casings 24/2/20 16/3/20 2/3/20 Rotors 8/6/20 Blading 8/6/20 Gearing 8/6/20
Rotor shaft 8/6/20 Thrust shaft 18/6/20 Tunnel shafts 18/6/20 Screw shaft 18/6/20 Propeller 1/6/20
Stern tube 1/6/20 Steam pipes tested 5/10/20 Engine and boiler seatings 1/6/20 Engines holding down bolts 12/10/20
Completion of pumping arrangements 22/11/21 Boilers fixed 12/10/20 Engines tried under steam 27/11/21

Main boiler safety valves adjusted 28/4/21

Thickness of adjusting washers: 1/4, 1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10, 10 1/4, 10 1/2, 10 3/4, 11, 11 1/4, 11 1/2, 11 3/4, 12, 12 1/4, 12 1/2, 12 3/4, 13, 13 1/4, 13 1/2, 13 3/4, 14, 14 1/4, 14 1/2, 14 3/4, 15, 15 1/4, 15 1/2, 15 3/4, 16, 16 1/4, 16 1/2, 16 3/4, 17, 17 1/4, 17 1/2, 17 3/4, 18, 18 1/4, 18 1/2, 18 3/4, 19, 19 1/4, 19 1/2, 19 3/4, 20, 20 1/4, 20 1/2, 20 3/4, 21, 21 1/4, 21 1/2, 21 3/4, 22, 22 1/4, 22 1/2, 22 3/4, 23, 23 1/4, 23 1/2, 23 3/4, 24, 24 1/4, 24 1/2, 24 3/4, 25, 25 1/4, 25 1/2, 25 3/4, 26, 26 1/4, 26 1/2, 26 3/4, 27, 27 1/4, 27 1/2, 27 3/4, 28, 28 1/4, 28 1/2, 28 3/4, 29, 29 1/4, 29 1/2, 29 3/4, 30, 30 1/4, 30 1/2, 30 3/4, 31, 31 1/4, 31 1/2, 31 3/4, 32, 32 1/4, 32 1/2, 32 3/4, 33, 33 1/4, 33 1/2, 33 3/4, 34, 34 1/4, 34 1/2, 34 3/4, 35, 35 1/4, 35 1/2, 35 3/4, 36, 36 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