

# REPORT ON MACHINERY.

No. 482

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28<sup>TH</sup> OCT-1918 Port of SEATTLE

Survey held at SPOKANE WASH Date, First Survey June 10 Last Survey 19  
 in the Single Screw Steamship "War Convoy" (Number of Visits.....)  
D. Gillies Built at Vancouver B.C. By whom built J. Coughlan & Sons When built 1919  
 made at SPOKANE By whom made HALLIDIE MACHINERY CO. when made 1918  
 made at Vancouver B.C. By whom made Vulcan Iron Works when made 1919  
 Horse Power 564 2500 G.W. Owners Imperial Munitions Board Port belonging to London  
 Horse Power at Full Power 2850 Is Refrigerating Machinery fitted for cargo purposes ☒ Is Electric Light fitted yes

VE ENGINES, &c.—Description of Engines PARSON'S CROSS COMPOUND DOUBLE REDUCTION No. of Turbines 2  
 Rotor Shaft Journals, H.P. 4" L.P. 4" Diameter of Pinion Shafts 4 7/8" & 10"  
 Journals 5" & 10" Distance between Centres of Bearings 2'-6" & 5'-1 1/2" Diameter of Pitch Circle 7.75 & 13.2  
 Wheel Shaft 10" & 14" Distance between Centres of Bearings 5'-1 1/2" Diameter of Pitch Circle of Wheel 3'-10" & 6'-6 3/8"  
 Diameter of Thrust Shaft under Collars..... Diameter of Tunnel Shaft..... as per rule..... as fitted.....  
 Diameter of same..... as per rule..... Diameter of Propeller..... Pitch of Propeller.....  
 State whether Moveable..... Total Surface..... Diameter of Rotor Drum, H.P. 13 1/2" L.P. 26" astern 29" MEAN  
 Bottom of Groove, H.P...... L.P...... Astern..... Revs. per Minute at Full Power, Turbine 3200 Propeller 90

H.P.			L.P.			H.P. ASTERN. IMPULSE.		
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.
11 1/2"	1'-2 3/4"	7	1 1/2"	2'-5 3/4"	2	3 ROWS OF BUCKETS 29" MEAN DIA.		
16"	1'-2 3/4"	7	2 1/2"	2'-7"	2			
1 1/2"	1'-3 1/4"	6	3 5/8"	2'-8 5/8"	2			
1 1/2"	1'-3 7/8"	6	4 3/8"	2'-10 3/4"	2	L.P. ASTERN IMPULSE 3 ROWS OF BUCKETS 29" MEAN DIA.		
1 1/8"	1'-9"	3	5"	3'-0"	1			
1 5/8"	1'-9 5/8"	3	5"	3'-0"	1			
1 11/16"	1'-10 3/8"	3	5"	3'-0"	1			
2 3/8"	1'-11 1/4"	3	5"	3'-0"	1			

Size of Feed pumps.....  
 Size of Bilge pumps.....  
 Size of Bilge suction in Engine Room..... In Holds, &c.....

Injections..... sizes..... Connected to condenser, or to circulating pump..... Is a separate Donkey Suction fitted in Engine Room & size.....  
 Are the roses in Engine room always accessible.....  
 Are they Valves or Cocks.....  
 Are the Discharge Pipes above or below the deep water line.....  
 Are the Blow Off Cocks fitted with a spigot and brass covering plate.....  
 How are they protected.....  
 Are they carried through the bunkers.....  
 Are the cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times.....  
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges.....  
 Is it fitted with a watertight door..... worked from.....

Boilers, &c.—(Letter for record.....) Manufacturers of Steel.....  
 Is Forced Draft fitted..... No. and Description of Boilers.....  
 Date of test..... No. of Certificate.....  
 Tested by hydraulic pressure to.....  
 Area of fire grate in each boiler.....  
 No. and Description of Safety Valves to.....  
 Are they fitted with easing gear.....  
 Area of each valve..... Pressure to which they are adjusted.....  
 Length..... Material of shell plates.....  
 Mean dia. of boilers.....  
 Descrip. of riveting: cir. seams.....  
 Are the shell plates welded or flanged.....  
 Lap of plates or width of butt straps.....  
 Range of tensile strength.....  
 Pitch of rivets.....  
 Diameter of rivet holes in long. seams.....  
 Size of manhole in shell.....  
 rivets..... Working pressure of shell by rules.....  
 plates.....  
 No. and Description of Furnaces in each Boiler.....  
 Material..... Outside diameter.....  
 compensating ring.....  
 crown..... Description of longitudinal joint.....  
 top..... Thickness of plates.....  
 bottom.....  
 Combustion chamber plates: Material..... Thickness: Sides..... Back..... Top..... Bottom.....  
 pressure of furnace by the rules.....  
 If stays are fitted with nuts or riveted heads..... Working pressure by rules.....  
 Ends plates in steam space.....  
 Area supported by each stay..... Working pressure by rules.....  
 Material of stays.....  
 Diameter at smallest part.....  
 How are stays secured.....  
 Working pressure by rules.....  
 Material of Front plates at bottom.....  
 Thickness..... Pitch of stays.....  
 Working pressure of plate by rules.....  
 Mean pitch of stays.....  
 Area supported by each stay.....  
 Material of Lower back plate.....  
 Thickness.....  
 Greatest pitch of stays.....  
 Working pressure of plate by rules.....  
 Material of tube plates..... Thickness: Front..... Back.....  
 Pitch of tubes.....  
 Girders to Chamber tops: Material.....  
 Depth and.....  
 Length as per rule..... Distance apart.....  
 Number and pitch of stays in each.....  
 Diameter.....  
 Steam dome: description of joint to shell.....  
 Diameter of rivet holes.....  
 Pitch of rivets.....  
 Description of longitudinal joint.....  
 How stayed.....  
 Crown plates: Thickness.....

W10-0043



SPARE GEAR. State the articles supplied:—

Manufacturer.

Is the approved plan of main boiler forwarded herewith