

Attached to Baltimore Report No 2221

REPORT ON MACHINERY

N.Y. No. 14353

Writing Report Oct 17 When handed in at Local Office 1917 Port of New York
 Survey held at Hoboken N.J. Date, First Survey July 7 - 1916 Last Survey 1917
 on the Turbine Machinery for U.S. - Baltimore P. & D. D.C. - Wm. "William" Brown (Number of Visits "1")
 Gross Tons 3321
 Net Tons 2032
 Built at Baltimore Md. By whom built Baltimore P. & D. + S. B. Co. When built 1917
 Made at Hoboken By whom made W. D. Fletcher Co. when made 1917
 Made at Hoboken By whom made W. D. Fletcher Co. when made 1917
 Horse Power 1300 Owners United States Shipping Board
Emergency Fleet Corporation. Port belonging to New York
 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

W. D. FLETCHER CO. 223

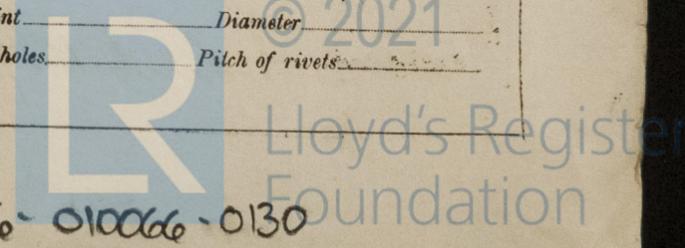
GEARED TURBINES, &c.—Description of Engines Geared Turbines No. of Turbines 2
 Diameter of Rotor Shaft Journals, H.P. 5 1/2" L.P. 6" Diameter of Pinion Shaft 4 5/8"
 Diameter of Journals 4 3/8" Distance between Centres of Bearings 22 5/16" Diameter of Pitch Circle 15 1/4"
 Diameter of Wheel Shaft 1 1/2" Distance between Centres of Bearings 52 3/4" Diameter of Pitch Circle of Wheel 111.7 1/4"
 Diameter of Thrust Shaft under Collars 7 3/8" (Rigidly fixed bearing) Diameter of Tunnel Shaft as per rule 1 1/2"
 Diameter of same as fitted 1 1/2" Diameter of Propeller 14'-2" Pitch of Propeller 13'-6"
 State whether Movable No Total Surface 66.2 Diameter of Rotor Drum, H.P. 59 1/2" L.P. 2'-9" Astern 21"
 Revs. per Minute at Full Power, Turbine 2000 Propeller 92

CULARS OF BLADING.

SECTION	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.
1	1/2"	16 5/16"	16	1 1/2"	35 1/4"	3	3/8"	21 3/4"	6
2	1 1/16"	16 3/8"	16	1 5/8"	36 1/4"	3	3/4"	22 1/2"	6
3	1"	17"	16	2 1/4"	37 1/2"	3	1 1/2"	24"	6
4	3/4"	24 1/2"	7	3 1/4"	39 1/2"	3	2 1/8"	25 1/4"	3
5	1 1/16"	25 1/8"	7	4 1/2"	42"	3	2 1/2"	25 3/4"	3
6	1 1/2"	26"	7	5 1/2"	44"	2	2 7/8"		
7				5 1/2"	44"	2			

Size of Feed pumps _____
 Size of Bilge pumps _____
 Size of Bilge suction in Engine Room _____
 In Holds, &c. _____
 Bilge Injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine Room & size _____
 Bilge suction pipes fitted with roses _____ Are the roses in Engine room always accessible _____
 Connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____
 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 _____
 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 _____
 Pipes are carried through the bunkers _____ How are they protected _____
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____
 Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____

BOILERS, &c.—(Letter for record S 102) Manufacturers of Steel North Bros. Co.
 Heating Surface of Boilers 1766 sq ft Is Forced Draft fitted No No. and Description of Boilers 2 Cylindrical Single ended
 Pressure 155 lbs Tested by hydraulic pressure to 232.5 lbs Date of test 3-1-17 No. of Certificate 15
 Boiler worked separately _____ Area of fire grate in each boiler Oil fuel No. and Description of Safety Valves to _____
2 Spring loaded Area of each valve 9.621 sq Pressure to which they are adjusted _____ Are they fitted with easing gear _____
 Distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers 24 in length 10'-0" Material of shell plates Steel
 Range of tensile strength 62700 71600 lbs Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R.L.A.P.
7.R.D.B.5 Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 29/32" Lap of plates or width of butt straps 1 1/2"
 Size of strength of longitudinal joint _____ rivets 98 Working pressure of shell by rules 170 lbs Size of manhole in shell 12" x 16"
 Compensating ring 36" x 32" x 7/8" No. and Description of Furnaces in each Boiler Two Morrison's Material Steel Outside diameter 40"
 Plain part _____ Thickness of plates _____ crown 3 1/2" Description of longitudinal joint Welded No. of strengthening rings Compound
 Pressure of furnace by the rules 157.5 Combustion chamber plates: Material Steel Thickness: Sides 19/32" Back 19/32" Top 19/32" Bottom 3/4"
 Stays to ditto: Sides 7 1/2" x 7 1/2" Back 7 1/2" x 7 1/2" Top 7 1/2" x 7 1/2" If stays are fitted with nuts or riveted heads Riveted heads Working pressure by rules 160.5 lbs
 Diameter at smallest part 1 1/2" Area supported by each stay 7 1/2" x 7 1/2" Working pressure by rules 157.5 End plates in steam space _____
 Thickness 15/16" Pitch of stays 15 1/2" x 15" How are stays secured D. Nuts Working pressure by rules 170 lbs Material of stays Steel
 Diameter at smallest part 2 1/2" Area supported by each stay 15 1/2" x 15" Working pressure by rules 163.5 Material of Front plates at bottom Steel
 Material of Lower back plate Steel Thickness 1 1/16" Greatest pitch of stays 13" x 7 1/2" Working pressure of plate by rules 228 lbs
 Pitch of tubes 3 1/2" x 3 3/8" Material of tube plates Steel Thickness: Front 3/8" Back 3/8" Mean pitch of stays 10 1/2" x 10 7/8"
 Working pressures by rules 193.5 lbs Girders to Chamber tops: Material Steel Depth and _____
 Length as per rule 20" Distance apart 7 1/2" Number and pitch of stays in each 3 - 7 1/2"
 Steam dome: description of joint to shell Not fitted % of strength of joint _____ Diameter _____
 Description of longitudinal joint _____ Diameter of rivet holes _____ Pitch of rivets _____
 Crown plates: Thickness _____ How stayed _____



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