

Hull 541

3428

4a.

REPORT ON MACHINERY.

No. 17022

REC'D NEW YORK Sept. 25-1919

Received at London Office

of writing Report. 19th Sept 1919, When handed in at Local Office 20th Sept 1919. Port of New York N.Y. and Philadelphia
 in Survey held at Schuytady N.Y. Date, First Survey 22nd April '19 Last Survey 18th Sept. '19
 g. Book. (Number of Visits 33)

on the STEEL SCREW STEAMER "LABETTE" Gross 5562
Tons Net 3434

ster J Mc Cloud. Built at Philadelphia By whom built American International Corp When built 1919
 gines made at Schuytady N.Y. By whom made General Electric Coy. when made 1919
 lers made at Bayonne N.J. By whom made Babcock & Wilcox Co., MB 608 when made 1918
 MINAL
 rictored Horse Power 600. Owners Emergency Steel Corporation Port belonging to Philadelphia
 ft Horse Power at Full Power 2500. Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

RBINE ENGINES, &c.—Description of Engines Grand turbine gear, 13583 No. of Turbines One
 eter of Rotor Shaft Journals, H.P. 8" L.P. ✓ Diameter of Pinion Shaft 4" N.S.P. 7-612
 eter of Journals H.S.P. 4" Distance between Centres of Bearings H.S.P. 24" Diameter of Pitch Circle " 6-57-888"
 eter of Wheel Shaft 14" Distance between Centres of Bearings L.S.P. 63 1/4" Diameter of Pitch Circle of Wheel " 6-54-055"
 th of Face 20-44 Diameter of Thrust Shaft under Collars 13-25" Diameter of Tunnel Shaft as per rule 13-40"
(continuous) Diameter of same as fitted 14" Diameter of Propeller 14'-0" Pitch of Propeller 13'-9"
 of Screw Shafts one line State whether Moveable no Total Surface 98.8 sq ft Diameter of Rotor Drum, H.P. ✓ L.P. ✓ Astern ✓
 of Blades 4 Thickness at Bottom of Groove, H.P. ✓ L.P. ✓ Astern ✓ Revs. per Minute at Full Power, Turbine 3234 Propeller 90

PARTICULARS OF BLADING.

	H.P.			L.P.			ACTIVE ASTERN.		
	HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION	<u>78-1-25</u>	<u>2'-11 1/2"</u>	<u>2</u>				<u>81.5-1-5</u>	<u>3'-3"</u>	<u>2</u>
"	<u>6.25</u>	<u>3'-9"</u>	<u>1</u>				<u>3-3 1/4</u>	<u>3'-3"</u>	<u>1</u>
"	<u>1-25</u>	<u>3'-10 1/2"</u>	<u>1</u>						
"	<u>2-5</u>	<u>4'-0"</u>	<u>1</u>						
"	<u>6-0</u>	<u>4'-2"</u>	<u>1</u>						

o. and size of Feed pumps Two 10" x 6" x 24" ✓
 o. and size of Bilge pumps Two 12" x 8 1/2" x 13" and 10" x 12" x 12" ✓
 o. and size of Bilge suction in Engine Room Two 3 1/2" dia, Thrust recess 1-3 1/2, Fire room 2-3 1/2" ✓
In Holds, &c. No 1 Two-3 1/2, one-2 1/2, No 2 Two-3 1/2, No 3 Two-3 1/2"
No 4 one-3 1/2, No 5 one-3 1/2, Tunnel well one-3 1/2"
 o. of Bilge Injections one size 10" Connected to condenser, or to circulating pump no 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 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 upper engine platform

OILERS, &c.—(Letter for record S) Manufacturers of Steel

Total Heating Surface of Boilers 8700 Is Forced Draft fitted yes No. and Description of Boilers 3 Watertube Boilers
 Working Pressure 200 Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 Can each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of Safety Valves to _____
 each boiler _____ Area of each valve _____ Pressure to which they are adjusted _____ Are they fitted with easing gear _____
 Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers _____ Length _____ Material of shell plates _____
 Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: vir. seams _____
 long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____
 rivets _____ Working pressure of shell by rules _____ Size of manhole in shell _____
 plates _____
 Size of compensating ring _____ No. and Description of Furnaces in each Boiler _____ Material _____ Outside diameter _____
 Length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____
 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 _____ Thickness _____ Pitch of stays _____ 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 _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ 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 _____ % 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 _____

