

REPORT ON MACHINERY.

No. 17022

REC'D NEW YORK Sept. 25-1919

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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 Schenectady 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
Net 3434

ster J. McCloud. Built at Philadelphia By whom built American International Corp When built 1919
ines made at Schenectady N.Y. By whom made Amal Electric Co. 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

BINE 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" H.S.P. 7-612
eter of Journals H.S.P. 4" Distance between Centres of Bearings 4-28" Diameter of Pitch Circle 6-57-888 L.S.P. 11-442
eter of Wheel Shaft 14" Distance between Centres of Bearings L.S.P. 634" Diameter of Pitch Circle of Wheel 6-54-255
th of Face 20-44 Diameter of Thrust Shaft under Collars 13-25" Diameter of Tunnel Shaft as per rule 13-40" as fitted 12-625"
of Screw Shafts one line Diameter of same as per rule 14" as fitted 14-5" Diameter of Propeller 14'-0" Pitch of Propeller 13'-9"
of Blades 4 State whether Moveable no Total Surface 98-8 f Diameter of Rotor Drum, H.P. ✓ L.P. ✓ Astern ✓
ickness at Bottom of Groove, H.P. ✓ L.P. ✓ Astern ✓ Revs. per Minute at Full Power, Turbine 3234 Propeller 90

RTICULARS OF BLADING.

	ACTIVE HEIGHT OF BLADES.	H.P. PITCH DIAMETER AT TIP.	NO. OF ROWS.		L.P. HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.		ACTIVE HEIGHT OF BLADES.	ASTERN. PITCH DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION	78-1-25	2'-11 1/2"	2						8125-1-5	3'-3"	2
"	625	3'-9"	1						3-345	3'-3"	1
"	1-25	3'-10 1/2"	1								
"	2-5	4'-0"	1								
"	6-0	4'-2"	1								
"											
"											
"											
"											

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 1-23, 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 pump Is a separate Donkey Suction fitted in Engine Room & size yes-3 1/2" ✓
re all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes ✓
re all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both ✓
re 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 ✓
re 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 ✓
That pipes are carried through the bunks 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 ✓
Forecastle 46
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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
to be given 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 bunks 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: air. seams
long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
th. Water Ca Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
t. Ton plates
Size of compensating ring 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 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

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