

## REPORT ON MACHINERY.

No. 17017

REC'D NEW YORK June 25-1919  
Date of writing Report 1<sup>st</sup> Aug 1919 When handed in at Local Office 2<sup>nd</sup> Aug 1919 Port of New York N.Y. and Philadelphia  
No. in Survey held at Schuylandy N.Y. Date, First Survey 28<sup>th</sup> Oct 1919 Last Survey 1<sup>st</sup> Aug 1919  
Reg. Book. on the STEEL SCREW STEAMER "LIBERTY GLO" (Number of Visits 42)

Master J. Stouland Built at Philadelphia By whom built American International Corp When built 1919  
Engines made at Schuylandy N.Y. By whom made General Electric Co. when made 1919  
Boilers made at Bayonne N.J. By whom made Babcock and Wilcox Co., MB 600 when made 1918  
Registered Horse Power 600 Owners United States Shipping Board  
Shaft Horse Power at Full Power 2500 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

TURBINE ENGINES, &c.—Description of Engines Grand Turbine 13576. No. of Turbines 4  
Diameter of Rotor Shaft Journals, H.P. 8" L.P. 4" Diameter of Pinion Shaft 4"  
Diameter of Journals 4" Distance between Centres of Bearings 4" Diameter of Pitch Circle 4"  
Diameter of Wheel Shaft 14" Distance between Centres of Bearings 4" Diameter of Pitch Circle of Wheel 4"  
Width of Face 20.44" Diameter of Thrust Shaft under Collars 13.25" Diameter of Tunnel Shaft as per rule 12.48"  
No. of Screw Shafts 2 (continuous) Diameter of same as per rule 14" as fitted 14.5" Diameter of Propeller 17'-0" Pitch of Propeller 13'-9"  
No. of Blades 4 State whether Moveable no Total Surface 98.8 sq ft Diameter of Rotor Drum, H.P. L.P. as stern  
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.			ASTERN.		
	ACTIVE HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.	ACTIVE HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.
1ST EXPANSION	7.5-1.25	2'-11.5"	2				8.125-1.5	2'-3"	2
2ND	6.25	3'-9"	1				8.375	2'-3"	1
3RD	1.25	3'-10.5"	1						
4TH	2.5	4'-0"	1						
5TH	6.0	4'-2"	1						
6TH									
7TH									
8TH									

No. and size of Feed pumps Two 10"x6"x24" ✓  
No. and size of Bilge pumps Two 12"x8.5"x12" and 10"x12"x12" ✓  
No. and size of Bilge suction in Engine Room Two 3.5" dia, thrust recess 1-2.5" fire room 2-3.5" ✓  
In Holds, &c. No 1 Two 3.5" dia, No 2 Two 3.5" dia, No 3 Two 3.5" dia  
No. of Bilge Injections one sizes 10" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine Room & size yes 3.5"  
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 ✓  
SEE REPORT 5

## BOILERS, &amp;c.—(Letter for record 5) Manufacturers of Steel

Total Heating Surface of Boilers 8706 Is Forced Draft fitted yes No. and Description of Boilers 3 W.T.B.  
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: cir. seams  
long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps  
rivets  
plates  
Per centages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell  
Size of compensating ring No. and Description of Furnaces in each Boiler Material Outside diameter  
top crown  
Length of plain part Thickness of plates Description of longitudinal joint No. of strengthening rings  
bottom 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



## IS A DONKEY BOILER FITTED?

*The foregoing is a correct description.*

*Manufacturer.*

Is the approved plan of main boiler forwarded herewith.....No

Is this machinery a duplicate of a previous case yes ✓ If so, state name of vessel "S. Fluor Spar" and previous to

To say please to be filled in board.

+ LMC 8-19, failed for oil fuel 8-19, Green point air.

Travelling Expenses (if any) £ : ) 10/9/19 9-110

11. 2010 11/1

MACHINERY CERTIFICATE

999

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Foundation