

ster \_\_\_\_\_ Gross \_\_\_\_\_  
 Built at Shoole's Island By whom built Standard S.B. Corp. Tons { Net \_\_\_\_\_  
 Engines made at Shoole's Island By whom made Standard S.B. Corp. When built 1918-3  
 Silers made at Shoole's Island By whom made Standard S.B. Corp. when made 1918-3  
 Registered Horse Power \_\_\_\_\_ when made 1918-3  
 Owners U.S. Shipping Board Emergency Fleet Corp. Port belonging to New York  
 m. Horse Power as per Section 28 485 Is Refrigerating Machinery fitted \_\_\_\_\_

STANDARD S. B. N° 2

**BOILERS, &c.**—(Letter for record S) Manufacturers of Steel Central Iron & Steel Co. Philadelphia, Pa.

Total Heating Surface of Boilers 7128 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 3 Single ended

Working Pressure 190 lbs. Tested by hydraulic pressure to 285 lbs. Date of test 12/11/17 No. of Certificate 29

Can each boiler be worked separately Yes Area of fire grate in each boiler 62 sq ft No. and Description of Safety Valves to each boiler 2 Spring loaded Area of each valve 12.56 sq in Pressure to which they are adjusted 190 lbs. Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 6' 4 3/4" air space Mean dia. of boilers 14' 2 1/2" Length 12' 0" Material of shell plates Steel

Thickness 1 1/2" Range of tensile strength 28,320 lbs Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R.LAP.

long. seams D.B.S.T.R. Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 8 1/2" Lap of plates or width of butt straps 23"

Per centages of strength of longitudinal joint rivets 103 plate 82.5 Working pressure of shell by rules 204 lbs Size of manhole in shell 16" x 12"

Size of compensating ring 38" x 34" x 1 1/2" No. and Description of Furnaces in each boiler 3 Motion Material Steel Outside diameter 46 3/4"

Length of plain part top ✓ bottom ✓ Thickness of plates crown 3 1/2" bottom 3 1/2" Description of longitudinal joint Welded No. of strengthening rings ✓

Working pressure of furnace by the rules 204 Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 9/16" Bottom 7/8"

Pitch of stays to ditto: Sides 8" x 7" Back 7 3/4" x 6" Top 7 1/2" x 7" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 204 lbs

Material of stays Steel Area at smallest part 1.48 sq in Area supported by each stay 46.5 sq in Working pressure by rules 255 End plates in steam space:

Material Steel Thickness 1 1/16" Pitch of stays 14" x 14" How are stays secured D. Nuts Working pressure by rules 257 Material of stays Steel

Area at smallest part 5.93 sq in Area supported by each stay 196 sq in Working pressure by rules 316 Material of Front plates at bottom Steel

Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 13 5/8" Working pressure of plate by rules 352 lbs

Diameter of tubes 3" Pitch of tubes 4 1/4" x 4" Material of tube plates Steel Thickness: Front 3/4" x 3/4" Back 3/4" Mean pitch of stays 8 1/4"

Pitch across wide water spaces 14" Working pressures by rules 230 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10" x 1 1/2" Length as per rule 35 3/8" Distance apart 7" Number and pitch of stays in each 3 - 7/2"

Working pressure by rules 231 Steam dome: description of joint to shell No. fitted % of strength of joint ✓

Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓

Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓

**SUPERHEATER.** Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓

Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓

Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓



IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:— 2 top end bolts & nuts: 2 bottom end bolts & nuts: 2 main bolts & nuts: 1 set of coupling bolts & nuts: 4 jet pump valves & seats: 2 till pump valves & seats: 1 propeller: one propeller shaft: one two-throw crank shaft: 12 air pump valves: 2 propeller 1/2 one set top end braces: one bottom end brace: one set of link braces: one eccentric strap: one pump rod: one H.P. Valve spindle: one set of metallic packing for H.P. piston rod & H.P. spindle: 25 Condenser tubes: 36 boiler tubes: 37 piston springs: a quantity of assorted boiler iron of various sizes & a considerable quantity of hand tools.

The foregoing is a correct description,

*Standard Supply Co. Ltd.*  
*H. Brown* Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1916: Oct 6, 22 Dec 8, 1917 Feb 20, March 21, April 16, 25 May 14, 22 June 12, 21, 29 July 24, Aug 1, 20, 29 Sep 18, Oct 1, 19, 28, 1920  
During erection on board vessel - - 1918: Jan 3, Feb 11, 25, Mar 11, April 5  
Total No. of visits *12*

Is the approved plan of main boiler forwarded herewith *✓*

Dates of Examination of principal parts—Cylinders *16/4/17* Slides *12/6/17* Covers *22/5/17* " *donkey* " *1/8/17* " *1/8/17* " *1/8/17*  
Connecting rods *1/8/17* Crank shaft *20/8/17* Thrust shaft *20/8/17* Tunnel shafts *20/8/17* Screw shaft *24/7/17* Propeller *1/8/17*  
Stern tube *1/8/17* Steam pipes tested *13/2/17* Engine and boiler seatings *17/10/17* Engines holding down bolts *15/3/18*  
Completion of pumping arrangements *27/2/17* Boilers fixed *17/10/17* Engines tried under steam *15/3/18*  
Completion of fitting sea connections *20/10/17* Stern tube *20/10/17* Screw shaft and propeller *20/10/17*  
Main boiler safety valves adjusted *27/10/17* Thickness of adjusting washers *P. 36, F. 1/2, A. V. 1/2, C. 36, A. V. 1/2, P. 36*  
Material of Crank shaft *Steel* Identification Mark on Do. *229 T. E. D.* Material of Thrust shaft *Steel* Identification Mark on Do. *229 T. E. D.*  
Material of Tunnel shafts *Steel* Identification Marks on Do. *229 T. E. D.* Material of Screw shafts *Steel* Identification Marks on Do. *229 T. E. D.*  
Material of Steam Pipes *Lap Welded Steel* Test pressure *570 lbs per sq. in.*

Is an installation fitted for burning oil fuel *No* Is the flash point of the oil to be used over 150° F. *✓*

Have the requirements of Section 49 of the Rules been complied with *✓*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *To Jupiter. N.Y.K. Report 2*

General Remarks (State quality of workmanship, opinions as to class, &c.)

*The Machinery and Boilers of this Vessel have been built under Special Survey and accordance with the Rules and approved plans. The materials have been tested, found efficient and the workmanship is good. They have now been efficiently fitted on board under clean with satisfactory results. The case is respectfully submitted for the N. of L.M.C. 3-18 in the Register Book.*

It is submitted that this vessel is eligible for THE RECORD. + LMC 4.18. F.D.

*W.D.*  
*14/5/18*

The amount of Entry Fee ... *\$ 15.00*  
Special ... *\$ 221.25*  
Donkey Boiler Fee *✓* ... £ : :  
Travelling Expenses (if any) £ : :  
When applied for, *APR 16 1918*  
When received, *31.5.18*

*C. Pearson*  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute *New York APR 16 1918*

Assigned *+ LMC 4.18*

Certificate (if required) to be sent to  
The Surveyors are requested not to write on or below the space for Committee's Minute.

