

Buffalo, N.Y. By whom made *Barber Asphalt Paving Co.* when made *1919*
 Owners *United States Shipping Board* Port belonging to *Wilmington N.C.*
 Is Electric Light fitted *Yes*

Form A. B. 108
(See Cir. L. 145)

AMERICAN BUREAU OF SHIPPING

Date *Feb. 17, 1919*

REPORT NO. 74	REPORT ON RECIPROCATING ENGINES		PORT Pittsburg, Pa.
NO. IN RECORD	NAME OF VESSEL		PORT OF REGISTRY
CLASS	BUILT BY Carolina S. B. Co.	WHERE BUILT	
GROSS TONNAGE	OWNERS Emergency Fleet Corp. Engine No. 559	YEAR OF CERTIFICATE	
WHEN BUILT	ENGINES BUILT BY Hooven, Owens Rentschler Co., Cont. #1121	WHERE BUILT Hamilton, Ohio	
SINGLE OR TWIN SCREW	TYPE OF ENGINES Triple Expansion, Reciprocating	BOILER PRESSURE	
MAIN ENGINE DATA			
Stroke 48"	Working Pressure 200		COPY
Revolutions 88	Designed Indicated I. H. P. 2800		
CYLINDER DIAMETERS AND TEST PRESSURE APPLIED			
H. P. Cylinder 24-1/2"	Test Press. 300	2nd I. P. Cylinder	Test Press.
1st I. P. Cylinder 41-1/2"	Test Press. 150	L. P. Cylinder 72	Test Press. 50
TYPE OF VALVES			
H. P. Valve Piston	2nd I. P. Valve		
1st I. P. Valve Piston	L. P. Valve Slide		
THROTTLE VALVE			
Diameter of Valve 8"	Tested to 400		Lbs. Pressure
CONDENSER			
Type	Diameter of Tubes		
Cooling Surface in Sq. Feet	Length between Tube Sheets		
No. of Tubes			
1st Visit	Last Visit <u>Constant attention</u> <div style="text-align: right;"> (S.) <u>James A. Neely</u> SURVEYOR CHIEF SURVEYOR </div>		
No. of Visits			
Fees			
Expenses			
Total			

This Report consists of sheets attached hereto

002085-002093-0248/7
 Lloyd's Register
 Foundation

Material of tube plates Thickness: Front Back Mean pitch of stays
 Working pressures by rules Girders to Chamber tops: Material Depth and
 Length as per rule

SHAFTING

Crank Shaft—Type	Built up	Intermediate Shafting, No. of Lengths
Crank Shaft Diameter	14"	Intermediate Shafting Diameter
Thickness of Webs	9-1/2"	Diameter of Coupling
Width of Webs	Pin End 27" Shaft End 29-3/4"	No. and Diameter of Shaft Coupling Bolts.
Thrust Bearing Type	Horse Shoe	Propeller Shaft Diameter
Thrust Shaft Diameter	14"	Type of Sleeve
Number of Collars	10	Thickness of Sleeve
Diameter of Collars	23-1/2"	Diameter of Thread at End

PROPELLER

Material	Pitch
No. of Blades	No. and Size of Bolts
Solid or Sectional	How Fitted to Shaft
Diameter	Developed Area of Blades

AUXILIARIES DIRECT CONNECTED TO MAIN ENGINE

DESCRIPTION	No. of	Type	Diam.	Stroke	REMARKS
Reversing Engine	1	Steam slide valve	14"	20"	
Turning Engine	1	Steam Reversible	8"	6"	
Air Pump	1	Edwards	26"	21"	
Circulating Pump					
Bilge Pump	2	Plunger	5"	21"	
Sanitary Pump					
Feed Pump					
Evap. Feed Pump	1	Plunger	1-3/4"	8"	

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Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
 spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth _____

INDEPENDENT AUXILIARIES

DESCRIPTION	No. of	Type	Maker	Steam Cyl.	Water Cyl.	Stroke	Dia. Disch.	Dia. Suct'n
main Feed Pump								
Auxiliary Feed Pump								
Circulating Pump								
Air Pump								
Ballast Pump								
Bilge Pump								
General Serv. Pump								
Fire Pump								
Oil Fuel Transf. Pump								
Oil Burner Pump								
Fresh Water Pump								
Evap. Feed Pump								
Injector								

PUMPING ARRANGEMENTS

DESCRIPTION	SUCTION CONNECTIONS	DISCHARGE CONNECTIONS
Main Feed Pump		
Auxiliary Feed Pump		
Circulating Pump		
Air Pump		



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Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth of






















BILGE AND BALLAST CONNECTIONS

[illegible]

FEED HEATING APPLIANCES, ETC.

DESCRIPTION	No. of	Size	Type	Maker	Heat. Surf. or Capacity	REMARKS
Auxiliary Condenser						
Feed Water Heater						
Evaporator						
Filters						
Distiller						

FORGINGS AND CASTINGS

	STAMPED		STAMPED		
CRANK SHAFT REPORTED TESTED PORT OF REPORT NO. 226 Chicago REPORT NO. 226 " REPORT NO. 135-1 " REPORT NO. 232 " REPORT NO. 131 "	A. B. 478 594 472 797 428	 	CRANK WEBS REPORTED TESTED PORT OF REPORT NO. 34 Chicago REPORT NO. 23 " REPORT NO. 3292 Pittsburgh REPORT NO. " " REPORT NO. " " REPORT NO. " " REPORT NO. REPORT NO.	A. B. 587 460 84 77 81 103	
PISTON RODS REPORTED TESTED PORT OF REPORT NO. 224 Chicago REPORT NO. 224 " REPORT NO. 224 " REPORT NO.	A. B. 561 527 556	 	CROSSHEADS REPORTED TESTED PORT OF REPORT NO. 286 Chicago REPORT NO. " " REPORT NO. 239 " REPORT NO.	A. B. Heat 12245 " 12245 (" 12147 (serial 602	
CONNECTING RODS REPORTED TESTED PORT OF REPORT NO. 205 Chicago REPORT NO. 131 " REPORT NO. 135 " REPORT NO.	A. B. 526 372 455	 	CRANK PINS REPORTED TESTED PORT OF REPORT NO. 137 Chicago REPORT NO. 225 " REPORT NO. 225 " REPORT NO.	A. B. 635 578 642	
THRUST. SHAFT REPORTED FINISHED PORT OF REPORT NO. 4132 Pittsburgh	A. B. 608	 	PROPELLER SHAFT REPORTED FINISHED PORT OF REPORT NO.	A. B.	
INTERMEDIATE SHAFTS REPORTED FINISHED PORT OF REPORT NO. REPORT NO. REPORT NO. REPORT NO. REPORT NO.	A. B.	    	REVERSE SHAFT REVERSE SHAFT ARMS CONNECTING ROD BOXES	A. B. A. B. A. B. A. B.	   

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orse Power

Owners *United States Shipping Board* Port belonging to

Is Electric

Cylinders 3

Form A. B. 108-Sheet 7

HULL MACHINERY

DESCRIPTION	No. of	Size	Type	Maker	REMARKS
Steering Engine					
Capstan					
Windlass					
Winches					

SPARE GEAR

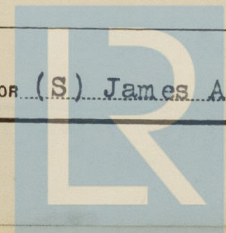
DESCRIPTION	No. of	DESCRIPTION	No. of	DESCRIPTION	No. of
Connecting Rod Top End Bolts	2	Safety Valve Springs			
Connecting Rod Bottom End Bolts	2	Fire Bars			
Main Bearing Bolts	2	HP Piston Rings	2		
Coupling Bolts	6	MP " "	2		
Set of Feed and Bilge Pump Valves		LP " "	1		
Set of Piston Springs each cylinder 1 set		COUPLING bolts 1 set			

REMARKS

EMERGENCY FLEET CORP. ENGINE NO. 559
MANUFACTURER'S ENGINE NO. 4485
ENGINE SHIPPED TO: Carolina Shipbuilding Co., Wilmington, N.C. 1-27-19

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SURVEYOR (S) James A. Neely



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Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material