

REPORT ON MACHINERY.

No. 851

Received at London Office

Date of writing Report *June 21st 1919* When handed in at Local Office *June 21st 1919* Port of *Seattle Wash.*
No. in Survey held at *Seattle Wash.* Date, First Survey *Feb 8th 1918* Last Survey *June 14th 1919*
Reg. Book.

on the *Single Screw Steamship Ex "OLEANDER"* (Number of Visits *36*) Gross Tons *2385.17*
Master *Ed Lucas* Built at *Seattle W.* By whom built *Anderson Shipbldg. Co.* Net Tons *1426.98*
When built *1919*

Engines made at *Seattle W.* By whom made *Marine Pipe & Machine Wks* when made *1918*

Boilers made at *Seattle W.* By whom made *Puget Sound Boiler Wks* when made *1918*

Registered Horse Power *1200* Owners *Oriental Navigation Co* Port belonging to *New York*

Horse Power as per Section 28 *208.896* Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

Engines, &c.—Description of Engines *Inverted Triple Expansion* No. of Cylinders *3* No. of Cranks *3*

No. of Cylinders *18x29x48* Length of Stroke *30"* Revs. per minute *120* Dia. of Screw shaft *10"* Material of screw shaft *Steel*

Is the screw shaft fitted with a continuous liner the whole length of the stern tube *No* Is the after end of the liner made water tight

Is the propeller boss *Yes* If the liner is in more than one length are the joints burned *Yes* If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *Yes* If two

are fitted, is the shaft lapped or protected between the liners *Yes, Marlin-Red Lead Paint* Length of stern bush *3'-3 1/2"*

as per rule *8.99* Dia. of Crank shaft journals *9 1/2"* as per rule *9.43* Dia. of Crank pin *9 1/2"* Size of Crank webs *6 3/4x33"* Dia. of thrust shaft under

as fitted *9"* Dia. of screw *11 1/6"* Pitch of Screw *10'-6"* No. of Blades *4* State whether moveable *Yes* Total surface *45 sq ft*

of Feed pumps *2 1/2"* Diameter of ditto *10x6"* Stroke *12"* Can one be overhauled while the other is at work *Yes*

of Bilge pumps *2 1/2"* Diameter of ditto *10x8"* Stroke *12"* Can one be overhauled while the other is at work *Yes*

of Donkey Engines *3* Sizes of Pumps *10x6x10-16x8x18x20-* No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room *3 @ 3 1/2'* *5x5x6* In Holds, &c. *2 @ 3 1/2' + 2 @ 3"*

Bilge Injections *1* sizes *7"* Connected to condenser, or to circulating pump *Yes* Is a separate Donkey Suction fitted in Engine room & size *Yes 4 1/2"*

Are the bilge suction pipes fitted with roses *Yes* Are the roses in Engine room always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *Yes*

Are all connections with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *Both Valves & Cocks*

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 *above*

Are they each fitted with a Discharge Valve always accessible on the *CEILING* of the vessel *Yes* Are the Blow Off Cocks fitted with a spigot and brass covering plate *No*

Are the pipes carried through the bunkers *Bilge Cocks & Nostrils* How are they protected *Wood & Iron Sheathing*

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 *Engine Room*

ERS, &c.—(Letter for record) Manufacturers of Steel *Steel & Iron Works Co., Pa.*

Heating Surface of Boilers *4044* Is Forced Draft fitted *No* No. and Description of Boilers *2 Scott Water Tube*

Working Pressure *200 lbs* Tested by hydraulic pressure to *400 lbs* Date of test *June 27th 1918* No. of Certificate

Can each boiler be worked separately *Yes* Area of fire grate in each boiler *52 sq ft* No. and Description of Safety Valves to

each boiler *1-2 1/2" Pat. Duplex* Area of each valve *4.9 sq in* Pressure to which they are adjusted *200 lbs* Are they fitted with easing gear *Yes*

Least distance between boilers or uptakes and bunkers or woodwork *18"* Mean dia. of boilers *36 1/2"* Length *9'-2"* Material of shell plates *Steel*

Thickness *1/2"* Range of tensile strength *60,000 lbs* Are the shell plates welded or flanged *Flanged* Descrip. of riveting: cir. seams *Single*

Seams *DR-31* Diameter of rivet holes in long. seams *15/16"* Pitch of rivets *3 3/4"* Lap of plates or width of butt straps *10 9/16"*

Percentage of strength of longitudinal joint *100%* Working pressure of shell by rules *252.7* Size of manhole in shell *at End 15x11*

Is there a compensating ring *No* No. and Description of Furnaces in each boiler *open* Material *Steel* Outside diameter *44"*

Is there a plain part *Yes* Thickness of plates *1/2"* Description of longitudinal joint *Open* No. of strengthening rings *1*

Working pressure of furnace by the rules *Yes* Combustion chamber plates: Material *Steel* Thickness: Sides *1/2"* Back *1/2"* Top *1/2"* Bottom *1/2"*

Are stays to ditto: Sides *Yes* Back *Yes* Top *Yes* If stays are fitted with nuts or riveted heads *Yes* Working pressure by rules *Yes*

Area of stays *Yes* Area at smallest part *Yes* Area supported by each stay *Yes* Working pressure by rules *Yes* End plates in steam space *Yes*

Thickness *Yes* Pitch of stays *Yes* How are stays secured *Yes* Working pressure by rules *Yes* Material of stays *Yes*

Area at smallest part *Yes* Area supported by each stay *Yes* Working pressure by rules *Yes* Material of End plates at bottom *Yes*

Material of Lower back plate *Yes* Thickness *Yes* Greatest pitch of stays *Yes* Working pressure of plate by rules *Yes*

Pitch of tubes *Yes* Material of tube plates *Yes* Thickness: Front *Yes* Back *Yes* Mean pitch of stays *Yes*

Working pressures by rules *Yes* Girders to Chamber tops: Material *Yes* Depth and

Distance apart *Yes* Number and pitch of stays in each *Yes*

Working pressure by rules *Yes* Steam dome: description of joint to shell *Yes* % of strength of joint *Yes*

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

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

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

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

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

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

2 Connecting Rod Top End Bolts & Nuts
2 Connecting Rod Bottom End Bolts & Nuts, 2 Main Bearing Bolts & Nuts
1 Set of Coupling Bolts & Nuts, 1 Set of Feed & Bilge Pump Valve
1 Set of Piston Rings, Six Exhaust Tubes, 20 Exhaust Screws
2 Propeller Bolts. Iron of various sizes. Assorted Bolts & Nuts

The foregoing is a correct description,

ANDERSON SHIPBUILDING CORPORATION

Per

W. Hall Secy.

Manufacturer.

Dates of Survey while building { During progress of work in shops -- Feb 8¹⁹¹⁸, 14, 25, March 9¹⁹¹⁸, 20, 29, April 18, 19, 27, May 21¹⁹¹⁸, 23¹⁹¹⁸, 27¹⁹¹⁸
During erection on board vessel -- June 4¹⁹¹⁸, 14¹⁹¹⁸, 19¹⁹¹⁸, 27¹⁹¹⁸, July 5, 19, Aug 8, 10, 16, 19, Sept 5, 26, Oct 2, 12, Dec 1, 18, Jan 1, 1919
Total No. of visits 36

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders Feb 25 Slides Feb 25 Covers Feb 25 Pistons March 20 Rods March 20
Connecting rods March 20 Crank shaft March 29 Thrust shaft Aug 19 Tunnel shafts Aug 19 Screw shaft Aug 19 Propeller Sept 19

Stern tube Aug 19 Steam pipes tested March 19-19 Engine and boiler seatings July 5-18 Engines holding down bolts July 19
Completion of pumping arrangements Sept 5¹⁹¹⁸ Boilers fixed Dec 16¹⁹¹⁸ Engines tried under steam April 22¹⁹¹⁹

Completion of fitting sea connections Sept 5¹⁹¹⁸ Stern tube Sept 22¹⁹¹⁸ Screw shaft and propeller Sept 22¹⁹¹⁸
Main boiler safety valves adjusted April 22¹⁹¹⁹ Thickness of adjusting washers Pat. Decree Don Lock nat 1/19

Material of Crank shaft A. Steel Identification Mark on Do. 21-9-18 L.N. Material of Thrust shaft A. Steel Identification Mark on Do. 26-8-18
Material of Tunnel shafts A. Steel Identification Marks on Do. 30-8-18 L.N. Material of Screw shafts A. Steel Identification Marks on Do. 30-8-18

Material of Steam Pipes Steel Test pressure 600 lbs. 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 No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. The Engine & Boilers have been built under special Survey & installed on Board together with Auxiliaries, Fittings, Sea Connections, Stern Tube, Shafting & all necessary piping in due accordance with the approved plans. Upon completion the machinery tried at sea under full working conditions & found satisfactory.

The Machinery is eligible in my opinion to be classed & have the notation of LMC 6 in the Register Book in the case of this vessel.

It is submitted that this vessel is eligible for THE RECORD. + LMC. 6.19

Subject to the Watertube Boilers being surveyed annually

Recd. 12/8/19

The amount of Entry Fee ... \$10.00

Special ... \$152.00

Donkey Boiler Fee ... \$

Travelling Expenses (if any) \$ 10.00

When applied for.

July 3¹⁹¹⁹

When received.

15/7/19 7/10/19

R. V. Norworthy & Co. Master
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

New York JUL 1 5 1919

Assigned

+ LMC. 6.19

MACHINERY EXAMINED

10.9.19



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