

Date of writing Report 1 July 1918 When handed in at Local Office

Received at London Office

MON. JUL 23, 1918

No. in Survey held at Ashtabula, O. Date, First Survey 28 Feb. 18 Last Survey 27 June 1918
Reg. Book. on the Screw Steamer "LAKE CHARLOTTE" (Number of Voids 16)Master Built at Ashtabula By whom built The St. Lakes Eng. Works When built 1918. 6
Engines made at Ashtabula By whom made The St. Lakes Eng. Works when made 1918
Boilers made at Buffalo N.Y. By whom made Lake Erie Boiler Works when made 1918
Registered Horse Power Owners U.S. Shipping Board Emergency Fleet belonging to Ashtabula
Nom. Horse Power as per Section 28 289 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YesENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3Dia. of Cylinders 21" 35" 59" Length of Stroke 42" Revs. per minute 85 Dia. of Screw shaft as per rule 2 1/4" Material of S
Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight
in the propeller boss Yes If the liner is in more than one length are the joints burned joint 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
liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 49 1/4"Dia. of Tunnel shaft as per rule 1 1/8" Dia. of Crank shaft journals as per rule 1 1/8" Dia. of Crank pin 1 1/8" Size of Crank webs 23 x 8 3/4" Dia. of thrust shaft under
collars 1 1/8" Dia. of screw 1/4" - 6" Pitch of Screw 13 - 9" No. of Blades 4 State whether moveable No Total surface 70 sq. ft.
INDEPENDT. SINGLE 10 x 6 x 12" DUPLEX 10 x 6 x 12"
No. of Feed pumps 2 Diameter of ditto Stroke Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 21" Can one be overhauled while the other is at work Yes
No. of Donkey Engines 2 Sizes of Pumps 10 x 12 x 12", 10 x 6 x 12" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 4 - 3" Bore Tunnel 1 - 2 1/2" Bore In Holds, &c. Forward Holds 2 - 3" Bore
Aft Holds 3 - 3" BoreNo. of Bilge Injections 1 sizes 7" Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size Yes - 3"
Are all 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 Bath
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 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 Steam & Winder Cables How are they protected Steel CasingsAre 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 Top Platform E.R.
BOILERS, &c.—(Letter for record S) Manufacturers of Steel Pennine Steel Co.Total Heating Surface of Boilers 4962 Is Forced Draft fitted No No. and Description of Boilers Two Multi. Single EndWorking Pressure 190 lb. Tested by hydraulic pressure to 300 lb. Date of test 26. 4. 18 No. of Certificate 121Can each boiler be worked separately Yes Area of fire grate in each boiler 74.7 sq. ft. No. and Description of Safety Valves to
each boiler Two Spring Area of each valve 12.57 sq. in. Pressure to which they are adjusted 190 lb. Are they fitted with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork 8 1/2" Mean dia. of boilers 15' - 9" Length 11' - 0" 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 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 Length of plain part Thickness of plates Description of longitudinal joint No. of strengthening rings 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 End plates in steam space: Material of stays Area at smallest part Area supported by each stay Working pressure by rules Material of stays Area 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 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? *Yes*

If so, is a report now forwarded? *Yes*

SPARE GEAR. State the articles supplied: — *Two top and bottom valves, two bottom and side valves, two main bearing bolts, set of coupling bolts, set each air, feed and bilge pump valves, one propeller.*

The foregoing is a correct description,

Groddman M M Manufacturer. *G L E W*

Dates of Survey while building { During progress of work in shops -- *1918, - Feb. 28, Mar 7, 14, 27, Apr 5, 16, 22, 26, 29, May 8, 16, 29.*
During erection on board vessel -- *June 8, 12, 22, 27.*
Total No. of visits *16*

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

" " " donkey " " " *Yes*

Dates of Examination of principal parts—Cylinders *8. 6. 18* Slides *29. 5. 18* Covers *29. 5. 18* Pistons *29. 5. 18* Rods *29. 5. 18*
Connecting rods *29. 5. 18* Crank shaft *16. 5. 18* Thrust shaft *16. 5. 18* Tunnel shafts *29. 5. 18* Screw shaft *5. 4. 18* Propeller *16. 4. 18*
Stern tube *5. 4. 18* Steam pipes tested *12. 6. 18* Engine and boiler seatings *29. 4. 18* Engines holding down bolts *27. 6. 18*
Completion of pumping arrangements *27. 6. 18* Boilers fixed *22. 6. 18* Engines tried under steam *22. 6. 18*
Completion of fitting sea connections *16. 4. 18* Stern tube *16. 4. 18* Screw shaft and propeller *29. 5. 18*
Main boiler safety valves adjusted *22. 6. 18* Thickness of adjusting washers *Look into future*
Material of Crank shaft *S.* Identification Mark on Do. *WL 1918* Material of Thrust shaft *S.* Identification Mark on Do. *WL 1918*
Material of Tunnel shafts *S.* Identification Marks on Do. *WL 1918* Material of Screw shafts *S.* Identification Marks on Do. *WL 1918*
Material of Steam Pipes *S.* Test pressure *570 lb.*

Is an installation fitted for burning oil fuel *Yes*

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 *Yes*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *LAKE ST REGIS*

General Remarks (State quality of workmanship, opinions as to class, &c. *The above machinery has been constructed under Special Survey. The materials and workmanship employed in its manufacture, for far as can be seen, are sound and good. Together with the Boilers, it has been fitted on board the above Vessel in a satisfactory manner and proved satisfactory under test.*

The Vessel is eligible, in my opinion, to have record + LMC 6. 18

It is submitted that this vessel is eligible for THE RECORD. + LMC 6. 18.

W. D. 2/8/18. J. P. R.

The amount of Entry Fee ... *\$ 10 : 00 :*
Special Forgings ... *\$ 172 : 25 :*
Donkey Boiler Fee ... *\$ 45 : 00 :*
Travelling Expenses (if any) *\$ 32 : 00 :*

When applied for, *5 July 1918*

When received, *14/9/18*

W. D. 2/8/18.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *New York JUL - 9 1918*

Assigned *+ LMC 6. 18.*



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