

## REPORT ON MACHINERY.

No. 434

REC'D NEW YORK Nov 24-1918

Received at London Office MON 16 DEC 1918

Date of writing Report Nov 9<sup>th</sup> 1918 When handed in at Local Office Nov 12<sup>th</sup> 1918 Port of Seattle, Wash U.S.A.  
No. in Survey held at Seattle Date, First Survey June 3<sup>rd</sup> Last Survey October 29<sup>th</sup> 1918  
Reg. Book. Seattle (Number of Visits 37)  
FIRST ENTRY on the New Steel Screw Steamer "WEST MEAD" (Builders and No. 9)  
Master J. H. Jones Built at Seattle By whom built Ames Shipbuilding & Drydock Co. Tons { Gross 5619  
Net 4202  
When built 1918  
Engines made at Seattle By whom made Ames Shipbuilding & Drydock Co. when made 1918  
Boilers made at Seattle By whom made Ames Shipbuilding & Drydock Co. when made 1918  
Registered Horse Power 3000 Owners U.S. Shipping Board & Emergency Fleet Corp. Port belonging to Seattle  
Nom. Horse Power as per Section 28 543 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 26" - 43" - 73" Length of Stroke 48" Revs. per minute 90 Dia. of Screw shaft as per rule 14.47 Material of Steel  
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 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 — If two  
liners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 4'-11"  
Dia. of Tunnel shaft as per rule 13.52 Dia. of Crank shaft journals as per rule 14.2 Dia. of Crank pin 14 1/4" Size of Crank webs 8 3/4 x 27 Dia. of thrust shaft under  
collars 14 1/4" Dia. of screw 16'-0" Pitch of Screw 14'-3" No. of Blades 4 State whether moveable yes Total surface 84 1/2  
No. of Feed pumps 2 Diameter of ditto 12 x 7 Stroke 18 Can one be overhauled while the other is at work yes  
No. of Bilge pumps 2 Diameter of ditto 5 Stroke 24 Can one be overhauled while the other is at work yes  
No. of Donkey Engines 1 Duplex Sizes of Pumps 12" x 8 1/2" x 12" No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room 3-3 1/2 and 1-4" In Holds, &c. No. 1 Hold 2-3 1/2" No. 2 Hold 2-3 1/2"  
No. 3 Hold 2-3 1/2" No. 4 Hold 2-3 1/2" No. 5 Hold 2-3 1/2" Shaft Tunnel 1-2 1/2"  
No. of Bilge Injections 1 sizes 10" Connected to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 1-4"  
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 Valves and 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 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 Sounding & Air pipes How are they protected wood casings  
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 above line of main deck

BOILERS, &c.—(Letter for record Apr 12 9 1917 Manufacturers of Steel Midvale Steel Co.)

Total Heating Surface of Boilers 7956 Is Forced Draft fitted yes No. and Description of Boilers 3 Single ended Scotch Marine  
Working Pressure 200 Tested by hydraulic pressure to 300 Date of test August 28 No. of Certificate —  
Can each boiler be worked separately yes Area of fire grate in each boiler 64.5 1/2 No. and Description of Safety Valves to  
each boiler 2 Spring loaded Area of each valve 9.62 Pressure to which they are adjusted 200 Are they fitted with easing gear yes  
Smallest distance between boilers or uptakes and bunkers 12" Mean dia. of boilers 14'-10 3/4" Length 11'-17 1/2" Material of shell plates Steel  
Thickness 1 3/16" Range of tensile strength 60,000 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Double Lap  
long. seams Triple Butt Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8 1/2" width of butt straps 17 1/2"  
Per centages of strength of longitudinal joint rivets 83.4 Working pressure of shell by rules 213.5 Size of manhole in shell 12" x 16"  
Size of compensating ring 30 x 32 x 1 1/4" No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 47 3/16"  
Length of plain part top Thickness of plates crown 19/32 Description of longitudinal joint welded No. of strengthening rings —  
bottom bottom 19/32 Working pressure of furnace by the rules 200 Combustion chamber plates: Material Steel Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 3/32"  
Pitch of stays to ditto: Sides 7 x 8 Back 7 1/4 x 7 3/4 Top 7 x 8 1/2 If stays are fitted with nuts or riveted heads Others Riveted Working pressure by rules 214  
Material of stays Hot Iron Area at smallest part 1.515 Area supported by each stay 56.25 Working pressure by rules 243 End plates in steam space:  
Material Steel Thickness 1 3/16" Pitch of stays 17 1/2 x 17 1/2 How are stays secured Double Nuts Working pressure by rules 206 Material of stays Steel  
Area at smallest part 7.06 Area supported by each stay 306 Working pressure by rules 208 Material of Front plates at bottom Steel  
Thickness 49/64 Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 7 3/4" Working pressure of plate by rules 230  
Diameter of tubes 2 1/2" Pitch of tubes 3 7/8" Material of tube plates Steel Thickness: Front 49/64 Back 25/32 Mean pitch of stays 8.562  
Pitch across wide water spaces 7 3/4 x 13 Working pressures by rules 251 Girders to Chamber tops: Material Steel Depth and  
thickness of girder at centre 10 1/2 x 1 1/2 Length as per rule 34 Distance apart 8 1/2" Number and pitch of stays in each 4-7"  
Working pressure by rules 251 Steam dome: description of joint to shell None % 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 None Date of Approval of Plan Tested by Hydraulic Pressure  
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 Connecting rod top end bolts & nuts ✓  
2 " " Bottom end bolts & nuts ✓  
2 Main bearing bolts and nuts ✓  
8 Coupling bolts and nuts ✓  
1 Set Feed pump valves ✓  
1 Set Bilge pump valves ✓  
1 Set Crank pin crosses ✓  
1 Set Crosshead braces ✓  
1 Set Piston rings for each piston ✓

- 1 Main feed check valve.  
1 Eccentric strap.  
1 Link block.  
1 Set Piston and metallic packing.  
40 Condenser tubes and ferrules.  
50 Boiler tubes.  
1 Propeller blade.  
1 Set Furnace joints, baffles and girders.  
A number of spare parts for auxiliaries and  
Oil fuel installation.  
A quantity of assorted bolts nuts and iron of  
various sizes.

The foregoing is a correct description,

*H. J. Hahne Gen. Sup't Amer. Ship Bldg. Co. Inc.*

Dates of Survey while building { During progress of work in shops - June 3-8-12-17-24-27 July 2-10-17-24-29 Aug 2-7-13-14-20-24-27-28 (19)  
During erection on board vessel - Aug 2-12-20-27 Sep 9-16-19-26 Oct 2-7-11-14-17-21-22-24-25-29 (18)  
Total No. of visits 37

Is the approved plan of main boiler forwarded herewith Copy

" " " donkey " " "

Dates of Examination of principal parts—Cylinders June 24 July 17 Slides July 24 Covers July 17 Pistons July 2-17 Rods June 12 July 17  
Connecting rods June 17 July 17 Crank shaft July 2 Aug 2 Thrust shaft July 29 Aug 2 Tunnel shafts Aug 28 Oct 2 Screw shaft Aug 7 Propeller Aug 20  
Stern tube Aug 14-20 Steam pipes tested Oct 22 Engine and boiler seatings Aug 2-20 Engines holding down bolts Sep 19-20  
Completion of pumping arrangements Oct Boilers fixed Sep 16 Engines tried under steam Oct 29  
Completion of fitting sea connections Oct 22 Stern tube Aug 27 Screw shaft and propeller Aug 27  
Main boiler safety valves adjusted Oct 25 Thickness of adjusting washers  $P \frac{5}{8} - \frac{3}{4} \cdot C \frac{1}{16} - \frac{7}{8} \cdot S \frac{7}{8} - \frac{5}{8}$   
Material of Crank shaft Steel Identification Mark on Do. LLOYD'S No 228-6-9-18 LN Material of Thrust shaft Steel Identification Mark on Do. LLOYD'S No 188-23-7-18  
Material of Tunnel shafts Steel Identification Marks on Do. 220-29-8-18 Material of Screw shafts Steel Identification Marks on Do. LLOYD'S No 188-23-7-18  
Material of Steam Pipes Steel 220-28-8-18 " Test pressure 600 lbs ✓  
220-28-8-18 "

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 SS "WEST MOUNT" and "WEST PORT"

General Remarks (State quality of workmanship, opinions as to class, &c. The Engines and Boilers have been constructed and installed under special survey and in accordance with the approved plans together with auxiliaries, pipes, mountings, fittings, shafting and sea connections. The material and workmanship are both of good quality. On completion the machinery seen tried under steam and found satisfactory.

The Machinery eligible, in my opinion, to have the record of + LMC 10.18 made in the Register Book in the case of this vessel.

It is submitted that  
this vessel is eligible for  
THE RECORD. + LMC 10-18 FD

J.K.  
19/12/18

The amount of Entry Fee ... \$ 15 :  
Special ... \$ 235 : 75 :  
Donkey Boiler Fee ... \$ :  
Travelling Expenses (if any) \$ 68 : 25 :  
When applied for, Nov 9 1918  
When received, Dec 10 1918

Committee's Minute New York NOV 26 1918

Assigned

+ LMC 10.18

James Fowler  
Engineer Surveyor to Lloyd's Register of Shipping.



© 2020

Lloyd's Register  
Foundation