

REPORT ON MACHINERY.

No. 624

Date of writing Report June 20 1918 When handed in at Local Office June 24 1918 Port of Seattle Wash USANo. in Survey held at Seattle Date, First Survey Dec 5 - 1917 Last Survey May 18 1918Reg. Book. First Entry on the New Steel Screw Steamer "WESTMOUNT" Builders Yard No. 6 Tons { Gross 5584.7 Net 4167.6Master S. Parker Built at Seattle By whom built Ames Shipbuilding & Drydock Co When built 1918Engines made at Seattle By whom made Ames Shipbuilding & Drydock Co when made 1918Boilers made at Seattle By whom made Ames Shipbuilding & Drydock Co when made 1918Registered Horse Power 3000 Owners US Shipping Board & Emergency Fleet Corp Port belonging to SeattleNom. Horse Power as per Section 28 543 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 26-43-73 Length of Stroke 48 Revs. per minute 90 Dia. of Screw shaft 14.47 Material of screw shaft steelIs 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 tightin 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 partbetween the hearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive — If twoliners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 4-11Dia. of Tunnel shaft 13.52 Dia. of Crank shaft journals 14.2 Dia. of Crank pin 14.4 Size of Crank webs 8 3/4 x 27 Dia. of thrust shaft undercollars 14.2 Dia. of screw 16.0 Pitch of Screw 14-9 No. of Blades 4 State whether moenable yes Total surface 84.4No. of Feed pumps 2 Diameter of ditto 12 x 7 Stroke 18 Can one be overhauled while the other is at work yesNo. of Bilge pumps 2 Diameter of ditto 5 Stroke 24 Can one be overhauled while the other is at work noNo. of Donkey Engines 1 Sizes of Pumps 12 x 8 1/2 x 12 No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room 3-3 1/2 x 1-4 In Holds, &c. No 1 Hold 2-3 1/2, No 2 Hold 2-3 1/2No 3 Hold 2-3 1/2, No 4 Hold 2-3 1/2, No 5 Hold 2-3 1/2, Shaft Tunnel 1-2 1/2No. of Bilge Injections 1 sizes 10 Connected to condenser, etc. circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 1-4Are 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 noneAre all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Valves and CocksAre 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 belowAre 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 yesWhat pipes are carried through the bunkers Sounding and Air pipes How are they protected wood casingsAre all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yesIs the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Engine Room platform above line of main deckBOILERS, &c.—(Letter for record April 9 1917) Manufacturers of Steel Midvale Steel CoTotal Heating Surface of Boilers 7956 Is Forced Draft fitted yes No. and Description of Boilers 3 Single ended Scotch MarineWorking Pressure 200 Tested by hydraulic pressure to 300 Date of test April 25 No. of Certificate —Can each boiler be worked separately yes Area of fire grate in each boiler 64 1/2 No. and Description of Safety Valves toeach boiler 2 Spring loaded Area of each valve 9.62 Pressure to which they are adjusted 200 Are they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers on woodwork 12 Mean dia. of boilers 14-10 3/4 Length 11.198 Material of shell plates SteelThickness 1 3/4 Range of tensile strength 60,000 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams Double laplong. seams Triple butt Diameter of rivet holes in long. seams 1 5/16 Pitch of rivets 8 1/2 Top of plates on width of butt straps 17 1/2Per centages of strength of longitudinal joint rivets 83.4 Working pressure of shell by rules 213.5 Size of manhole in shell 12 x 16Size of compensating ring 30 x 32 x 1 1/2 No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 47 7/8Length of plain part top Thickness of plates crown 19/32 Description of longitudinal joint Welded No. of strengthening rings —Working pressure of furnace by the rules 200 Combustion chamber plates: Material Steel Thickness: Sides 1/2 Back 1/2 Top 1/2 Bottom 3/4Pitch of stays to ditto: Sides 7 x 8 Back 7 1/2 x 7 3/4 Top 7 x 8 1/2 If stays are fitted with nuts or riveted heads no Working pressure by rules 214Material of stays Wrought 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 3/8 Pitch of stays 17 1/2 x 17 1/2 How are stays secured Double nuts Working pressure by rules 206 Material of stays SteelArea at smallest part 7.06 Area supported by each stay 306 Working pressure by rules 208 Material of Front plates at bottom SteelThickness 49/64 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays 7 3/4 Working pressure of plate by rules 230Diameter of tubes 2 1/2 Pitch of tubes 3 5/8 Material of tube plates Steel Thickness: Front 49/64 Back 25/32 Mean pitch of stays 8.562Pitch across wide water spaces 13 Working pressures by rules 251 Girders to Chamber tops: Material Steel Depth andthickness 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 - 7Working 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 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 Connecting rod top end bolts & nuts	1 Tail shaft complete
2 " " bottom end " "	2 Propeller blades
2 Main Bearing bolts & nuts	40 Condenser tubes & ferrules
8 Coupling bolts (1 set)	10 Plain boiler tubes
1 Set Feed Pump valves	a quantity of assorted bolts, nuts and wire
1 Set Bidge Pump valves	of various sizes

The foregoing is a correct description,

Ames Shipbuilding Drydock Co.

Manufacturer.

Dates of Survey while building	{	During progress of work in shops --	1917 Dec 5-10-26 Jan 5-12-24-26-31 Feb 4-12-16-21-27 March 4-8-10-12-22-25-30 April 1-10-15-22-25 (26)
		During erection on board vessel --	March 8-12-25 April 1-15-23-25-29 May 2-7-10-14-15-18 (19)
		Total No. of visits	40

Is the approved plan of main boiler forwarded herewith Copy

" " " donkey " " "

Dates of Examination of principal parts—Cylinders Feb 26 March 4 Slides April 1 Covers Feb 26 Pistons March 4-12 Rods March 4-22

Connecting rods March 10-26 Crank shaft March 2 April 15 Thrust shaft April 1 Tunnel shafts April 1-15 Screw shaft April 1 Propeller April 10

Stern tube March 25 Steam pipes tested May 7 Engine and boiler seatings April 23 Engines holding down bolts May 7

Completion of pumping arrangements May 2 Boilers fixed April 29 Engines tried under steam May 15

Completion of fitting sea connections April 15 Stern tube April 15 Screw shaft and propeller April 15

Main boiler safety valves adjusted May 14 Thickness of adjusting washers P 15-7-8 C 13-14-15 S 3-4-15

Material of Crank shaft Steel Identification Mark on Do. 13-4-15 TF Material of Thrust shaft Steel Identification Mark on Do. 13-4-15

Material of Tunnel shafts Steel Identification Marks on Do. 14-5-15 LN Material of Screw shafts Steel Identification Marks on Do. 14-5-15

Material of Steam Pipes Steel Test pressure 600 lbs

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 Engines and Boilers constructed

and installed under special survey and in accordance with the approved plans together with auxiliaries, pipes, mountings, fittings 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 5.18 made in the Register Book in the case of this vessel.

It is submitted that this vessel is eligible for THE RECORD. + LMC 5.18 F.D.

The amount of Entry Fee ...	# 73 : 05 :	When applied for,
Special ...	# 222 : 07 :	June 17 1918
Donkey Boiler Fee ...	£ : :	When received,
Travelling Expenses (if any) #	78 : 00 :	June 19 1918

Committee's Minute New York JUL - 9 1918

Assigned

+ LMC 5.18

Elec. dk



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