

# REPORT ON MACHINERY.

No. 20539

FRI. AUG. 5 1921

Date of writing Report 10<sup>th</sup> July 1921 When handed in at Local Office 19 Port of New York  
 No. in Survey held at Kearny, New Jersey Date, First Survey 25<sup>th</sup> July 26 Last Survey 7 July 1921  
 Reg. Book. on the Twin Screw Steel Oil Tanker VICTOLITE Hull 49 Machinery ft. Tons } Gross 10996.61  
 Master G. Slater Built at Kearny N.J. By whom built Federal Ship Building Co When built 1921 Net 7725  
 Engines made at Kearny N.J. By whom made Federal Ship Building Co when made 1921  
 Boilers made at Kearny N.J. By whom made Federal Ship Building Co when made 1921  
 INDICATED Registered Horse Power 3500 Owners Standard Oil Co of New Jersey Port belonging to Victoria, B.C.  
 Nom. Horse Power as per Section 28 676 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Vertical Reciprocating Triple Exp. No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 20 1/2 x 35 x 60 Length of Stroke 42 Revs. per minute 90 Dia. of Screw shaft as per rule 12.54 Material of screw shaft S  
 as fitted 13  
 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 Welded 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 Liner fits tight  
 If two liners are fitted, is the shaft lapped or protected between the liners protected Length of stern bush 4-6  
 Dia. of Tunnel shaft as per rule 11.3 Dia. of Crank shaft journals as per rule 11.9 Dia. of Crank pin 12 Size of Crank webs 24 1/2 x 8 1/2 Dia. of thrust shaft under collars 12 Dia. of screw 15-0 Pitch of Screw 14-2 No. of Blades 3 State whether moceable Yes Total surface 50.292 sqft 1 prop.  
 INDEP. No. of Feed pumps 3 Diameter of ditto 12x8 Stroke 24 Can one be overhauled while the other is at work Yes  
 INDEP. No. of Bilge pumps 3 Diameter of ditto 8 1/2 x 8 Stroke 12 Can one be overhauled while the other is at work Yes  
 No. of Donkey Engines 1 Sizes of Pumps 8x5x12 No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room 8-3 1/2 Engine + Stokehold In Holds, &c. 4-6 Cargo pump room  
2-2 1/2 Forward pump room. 2-2 1/2 Forward Hold.  
 No. of Bilge Injections 2 sizes 8 Connected to condenser, or to circulating pump C.P. Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2  
 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 Both  
 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 Steam to pump room + deck machy How are they protected Boxed in with steel plate  
 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 No Tunnel Machinery Aft

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Carnegie & Illinois Steel Co.  
 Total Heating Surface of Boilers 9618 Is Forced Draft fitted Yes No. and Description of Boilers 3 Multitubular Single ended Scotch  
 Working Pressure 210 lbs Tested by hydraulic pressure to 315 lbs Date of test 4-1-21 No. of Certificate 398, 399, 400  
 Can each boiler be worked separately Yes Area of fire grate in each boiler Oil burning No. and Description of Safety Valves to each boiler 1-3 1/2 Twin Spring Area of each valve 9.62 Pressure to which they are adjusted 210 lbs Are they fitted with easing gear Yes  
 Smallest distance between boilers or uptakes and bunkers or woodwork 36 INSIDE Mean dia. of boilers 16-0 Length 11-6 Material of shell plates S  
 Thickness 1 23/32 Range of tensile strength 26.8 to 32.5 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R. LAP.  
 long. seams TR/DBS Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 9/4 Lap of plates or width of butt straps 23 3/4  
 Per centages of strength of longitudinal joint rivets 105.5 Working pressure of shell by rules 228 Size of manhole in shell 16x12  
 plate 81.8  
 Size of compensating ring 37x33 No. and Description of Furnaces in each boiler 4. Horizon Material S Outside diameter 44 1/4  
 Length of plain part top Yes Thickness of plates crown 5/8 Description of longitudinal joint Weld No. of strengthening rings Yes  
 bottom Yes bottom 5/8  
 Working pressure of furnace by the rules 215 Combustion chamber plates: Material S Thickness: Sides 1 1/16 Back 3/4 Top 1/16 Bottom 7/8  
 Pitch of stays to ditto: Sides 7 1/2 x 7 1/4 Back 8x8 Top 7 1/2 x 7 1/4 If stays are fitted with nuts or riveted heads Yes Riveted Working pressure by rules 222  
 Material of stays S Area at smallest part 1.8 Area supported by each stay 8 54.375 Working pressure by rules 248 End plates in steam space: 253  
 Material S Thickness 1 1/16 Pitch of stays 15 1/2 x 15 How are stays secured D. NUTS Working pressure by rules 217 Material of stays S  
 Area at smallest part 5.939 Area supported by each stay 232.5 Working pressure by rules 266 Material of Front plates at bottom S  
 Thickness 1 Material of Lower back plate S Thickness 1 Greatest pitch of stays 13x8 Working pressure of plate by rules 220  
 Diameter of tubes 2 3/4 Pitch of tubes 4 x 3 3/4 Material of tube plates S Thickness: Front 1 Back 13/16 Mean pitch of stays 7 1/2 x 12  
 Pitch across wide water spaces 13 Working pressures by rules 212 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 x 7/8 x 2 Length as per rule 35 Distance apart 7 1/2 Number and pitch of stays in each 4 @ 7 1/4  
 Working pressure by rules 272 Steam dome: description of joint to shell Yes % of strength of joint

SUPERHEATER. Type Yes 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 \_\_\_\_\_

9100-82M



