

REC'D NEW YORK SEP 23 1920

Rpt. 4.

REPORT ON MACHINERY.

No. 166

Received at London Office: TUE. OCT. 5 1920

Date of writing Report Sept 11th 1920 When handed in at Local Office Sept 15th 1920 Port of Toronto

No. in Survey held at Bollingwood, Ont. Date, First Survey Apr 5th 20. Last Survey Sept. 14th 1920

Reg. Book. on the SS TRANSPET (Number of Visits 46) Tons { Gross 639.89 Net 351.97

Master W.R. Smeltzer Built at Bollingwood By whom built Bollingwood S. B. Co When built 1920

Engines made at Bollingwood By whom made Bollingwood Shipbuilding Co when made 1920

Boilers made at Bollingwood By whom made Bollingwood Shipbuilding Co when made 1920

Registered Horse Power 560 Owners Compania Transportadora Petrolas of Buenos Aires Port belonging to Buenos Aires

Nom. Horse Power as per Section 28 77.3 Is 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
 Dia. of Cylinders 12 3/4 x 21 1/2 x 35 Length of Stroke 24 Revs. per minute 134 Dia. of Screw shaft 7 1/2 Material of screw shaft O.H. 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 one length 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 2'-10"
 Dia. of Tunnel shaft 6.57 Dia. of Crank shaft journals 6.8 Dia. of Crank pin 7 Size of Crank webs 13 x 4 1/2 Dia. of thrust shaft under collars 7 1/4 Dia. of screw 7'-6" Pitch of Screw 9'-9" No. of Blades 4 State whether moveable Solid Total surface 24 sq
 No. of Feed pumps 2 Diameter of ditto 6 x 6 x 10 x 6 x Stroke 8 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 10 x 6 x 10 x 6 x Stroke 4 Can one be overhauled while the other is at work yes
 No. of Donkey Engines 4 Sizes of Pumps 1. 10 x 6 x 10 No. and size of Suctions connected to both Bilge and Donkey pumps 1. 1.2 x 7 x 12. 2. 2" Syphons
 In Engine Room 8 3" Sue after well, Engine Room bilge, 3" Sue port & Holds, &c. 1. 3" Sue port + 1.3" Sue starboard
 3" Sue starboard aft of boiler dam 3" Sue port + 3" Sue starboard Hold. 1.3" Suction
 No. of Bilge Injections 1 sizes 4 Connected to condenser, or to circulating pump circulating pump Is a separate Donkey Suction fitted in Engine room & size 1.3" Sue.
 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
 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 none How are they protected yes
 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 yes

BOILERS, &c.—(Letter for record 1.5.8.) Manufacturers of Steel Illinois Steel Co. Chicago U.S.A.
 Total Heating Surface of Boilers 1330 sq Is Forced Draft fitted No No. and Description of Boilers 1. cylindrical multitubular
 Working Pressure 190 Tested by hydraulic pressure to 380 Date of test 6th Aug/20 No. of Certificate 127
 Can each boiler be worked separately yes Area of fire grate in each boiler 38.5 No. and Description of Safety Valves to each boiler Double spring loaded Area of each valve 4.968 Pressure to which they are adjusted 190 Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 11'-8" Length 10'-6" Material of shell plates O.H. steel
 Thickness 1 3/32 Range of tensile strength 22 to 32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams Double long seams 7 ribs Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8" Lap of plates or width of butt straps 18 3/4
 Per centages of strength of longitudinal joint 84.1 Working pressure of shell by rules 190 Size of manhole in shell 16 x 12
 Size of compensating ring 34 x 31 No. and Description of Furnaces in each boiler 2 corrugated Material O.H. steel Outside diameter 43 1/4
 Length of plain part top 5/8 bottom 5/8 Thickness of plates 5/8 Description of longitudinal joint Welded No. of strengthening rings yes
 Working pressure of furnace by the rules 230 Combustion chamber plates: Material O.H. steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 9/16
 Pitch of stays to ditto: Sides 6 1/4 x 6 1/2 Back 6 1/8 x 5 15/16 Top 6 x 8 If stays are fitted with nuts or riveted heads riveted heads Working pressure by rules 199
 Material of stays Iron Area at smallest part 1.166 Area supported by each stay 36.38 Working pressure by rules 192 End plates in steam space: Material O.H. steel Thickness 1" Pitch of stays 16 x 14 How are stays secured Double Nuts Working pressure by rules 250 Material of stays O.H. steel
 Area at smallest part 5.268 Area supported by each stay 256" Working pressure by rules 219 Material of Front plates at bottom O.H. steel Thickness 1/16 Material of Lower back plate O.H. steel Thickness 1/32 Greatest pitch of stays 6 1/8 x 5 15/16 Working pressure of plate by rules 250
 Diameter of tubes 3 Pitch of tubes 4 1/4 x 4 Material of tube plates O.H. steel thickness: Front 1/16 Back 1/16 Mean pitch of stays 8 1/2 x 8
 Pitch across wide water spaces 8" x 4 Working pressures by rules 220 Girders to Chamber tops: Material O.H. steel Depth and thickness of girder at centre 8 1/4 x 1 5/8 Length as per rule 2'-6" Distance apart 8" Number and pitch of stays in each 3 e 6"
 Working pressure by rules 199 Steam dome: description of joint to shell None % 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 _____ 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 _____



