

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 *S S TRANSPET* (Number of Visits *46*) Tons { Gross *639.89*
Net *351.97*
When built *1920*

Master *W. R. Smeltzer* Built at *Bollingwood* By whom built *Bollingwood S. B. Co*
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* Indefinite 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* Indefinite Diameter of ditto *4 1/2 x 3 1/2 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 2. 12 x 7 x 12 3. 2" Syphons* No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room *1. 3" Sue. after well, Engine Room bilge. 3" Sue. Port & Holds, &c. 2. 3" Sue. started. aft of fore dam 3" Sue. port & 3" Sue. started. Hold. 1. 3" Suction.*
No. of Bilge Injections *1* sizes *4* Connected to condenser, or to circulating pump *yes* 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 *1.5.20*) 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 *22.4-32 tons* Are the shell plates welded or flanged *no* Descrip. of riveting: cir. seams *Double*
long. seams *7 ribble* 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 *1*
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 1/4* 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 *1'16"* Area supported by each stay *36.38* Working pressure by rules *192* End plates in steam space: *200*
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 *5'26"* Area supported by each stay *256"* Working pressure by rules *219* Material of Front plates at bottom *O.H. steel*
Thickness *1 1/16* Material of Lower back plate *O.H. steel* Thickness *1 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 1/16* Back *1 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
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 _____

010236-010244-0217

IS A DONKEY BOILER FITTED? *No.*

If so, is a report now forwarded?

Rpt. 13.

RE

SPARE GEAR. State the articles supplied:— 2 Connecting rod top end bolts. 2 Connecting rod bottom end bolts. 2. Main bearing bolts. 1 Set coupling bolts
1. Set Fixed & Bilge pump valves. 1 Set air pump valves. 1 Set H.P. & L.P. Piston springs. 300 lb bolts & nuts assorted. 300 lb Iron various sizes. 1 Crank shaft.
1. Screw shaft. 1. Propeller. 1. Connecting rod. 1 Stern bush. 1 Pair connecting rod brasses. 1 Pair crosshead brasses. 1 Set link brasses. 1 Tautree strap
1. S.P. + 1. L.P. Valve spindles. 1 set condenser tubes. 1. Set Boiler tubes

The foregoing is a correct description,
THE COLLINGWOOD SHIPBUILDING CO. LTD.

COLLINGWOOD SHIPBUILDING
John S. Keith
Managing-Director.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } Apr. 5-9, May 4-7-17-18-28-29. June 2-3-8-12-15-17-23-29-30. July 8-9-12-15-16-17-19-22-23.
 { During erection on board vessel - - - } July 24-27-29-30-31. Aug. 5-6-12-13-19-20-25-26-31. Sept. 2-3-8-9-10-12.
 Total No. of visits 46

Is the approved plan of main boiler forwarded herewith

Is the approved plan of main boiler forwarded herewith

“ “ “ *donkey* “ “ “

Dates of Examination of principal parts—Cylinders 16.7.20 Slides 17.5.20 Covers 30.6.20 Pistons 14.7.20 Rods 13.8.20

Connecting rods 20' 8" 20 Crank shaft 32' 6" 20 Thrust shaft 30' 6" 20 Tunnel shafts ✓ Screw shaft 19' 7" 20 Propeller 19' 7" 20
Shaft " 19' 7" 20

Stern tube 8-6-20 Steam pipes tested 19-8-20 Engine and boiler seatings 20-8-20 Engines holding down bolts 13-8-20

Completion of pumping arrangements 25-8-20 Boilers fixed 12-8-20 Engines tried under steam 25-8-20

Completion of fitting sea connections 13-7-20 Stern tube 23-7-20 Screw shaft and propeller 23-7-20

Main boiler safety valves adjusted 25-8-20 Thickness of adjusting washers Port Valve $7/8"$ Starb'd $1\frac{3}{4}$

Material of Crank shaft o. H. ^{RCB} Steel Identification Mark on Do. 1351, 14-7-20 Material of Thrust shaft o. H. ^{RCB} Steel Identification Mark on Do. 1352, 14-7-20

Material of Tunnel shafts	Identification Marks on Do.	Material of Screw shafts	Identification Marks on Do.
		O. N. Steel	1353, 140-
		O. N. Steel	1358, 80-

Material of Steam Pipes Copper Test pressure 380 lb.^{sq.} 1360. 19-8-20 RCB

Is an installation fitted for burning oil fuel yes Is the flash point of the oil to be used over 150°F. yes ✓

Have the requirements of Section 49 of the Rules been complied with yes

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 Machinery & Boiler*

of this Vessel have been constructed under Special Survey

they are of good material & workmanship & have been

fitted + secured on board in accordance with the

Rules. They are now in good working condition +

eligible in my opinion to have record + L.M.C, 9-20.

Fitted for oil fuel 9-20. F.P. above 150°F .

It is submitted that
this vessel is eligible for
THE RECORD. + Lme. 9.20
Fitted for oil fuel 9.20 FPa above 150°F

Roll
6/10/80

IM

The amount of Entry Fee	...	£	5	:	00	:	When applied for,
Special	...	£	58	:	00	:	Sept 10 th 1920
Donkey Boiler Fee	...	£		:		:	When received,
Travelling Expenses (if any)	£			:		:	30/11/20

Robert C. Blyth
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute - TUE. OCT. 19 1920

Assigned

+ LMC 9.20
Fitted for oil fuel 9.20 F.P. above 150° F.

CERTIFICATE WRITTEN

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Foundation