

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

Machinery Particulars

Required for Records, Register Book, Classification Certificate, &c.

of the ~~single, triple~~ ~~twin, quadruple~~ Screw Steamship "FORT ST. JOSEPH"

PARTICULARS

PRELIMINARY

Shipbuilders Marine Industries, Limited, Sorel, Quebec. Yard No. 123
Enginebuilders Dominion Eng. Works, Limited, Montreal, Quebec. Works No. 132
(Lloyd's survey)

Boilermakers (Main) American Locomotive Works, Limited, Schenectady, N.Y. Works No. P-S111
(Lloyd's survey) Works No. C-S113
" (Donkey) Works No. S-S112

Description of Propelling Machinery Three cyl. triple expansion, reciprocating

BOILERS

Boilers: Main No. 3 ~~SE~~ ~~DE~~ Cylindrical Multitubular: No. 220 lbs. Water Tube. Type W.P. sq. in. 45 sq. ft.
Int. diameter 14'-6 3/16" Int. length 11'-6 5/16" Heating Surface each 2380 sq. ft. Grate Surface each 45 sq. ft.
Fuel: Coal, OK Draught: WATER, Closed Ashpit, CLOSED STOKES INDUCED DRAUGHT Are Superheaters fitted? Yes
Safety valves No. 2 H.L. 2" Rule diar. 1 (safety valve) superheater 1 1/2" dia.

Boilers: Aux. No. Donkey Type W.P.
Int. diameter length height Heating Surface each Grate Surface each Fuel
Safety valves No. Diar. Rule diar. Fuel

Main Steam Pipes: Material steel ~~Welded~~ ~~Seamless~~

Steam Engines: No. of sets 1 Cylinder diars. 24 1/2" 37" 70" Stroke 48"
IHP each 2500 at 76 RPM. Total capacity LP cylinder (each engine) 106.8 cu. ft.

Turbines: No. of sets HP IP LP Turbines on each shaft: Ahead Astern
SHP each at RPM. Astern SHP Type Impulse reaction

Gearing: Single reduction Speed reduction ratio
Double Speed reduction ratio

Oil Engines: No. of sets of Cylr. 4 cycle single double acting clutch direct reversing. Type clutch

Cyl. diars. Stroke Bearing span Total capacity cylrs. (each engine)

BHP each at RPM. Mean Indicated pressure Max. firing pressure

Flywheel: Weight tons, Diameter ft. Balance Weights: Total weight at radius of gyration tons at ft.

Starting air reservoirs: No. riveted, seamless, welded. Internal diar. W.P. capacity each cu. ft.

PROPELLING MACHINERY

Electric Propulsion: No. AC generators volts amps. kW each at RPM
No. AC motors volts amps. BHP each at RPM

Shafting: diars. crank 14 1/4" thrust 14 1/2" intermediate 13 1/2" propeller 15 1/2"

Rule diameters 14" 14" 13.33" 14.9"

Propeller: diar. 18'-6" pitch 16'-0" surface RPM 117 sg. ft. Tailshaft liner continuous mean

Date of Trial Trip November 19th, 1943 IHP 2462 RPM 78 Knots 12.84

Surveyor's Signature Lloyd's Register

NOTE.—This form, completed in respect of preliminary particulars, should be forwarded to the Head Office as soon as possible after the order has been received.

W1650-0267

Particulars of Auxiliary Machinery Ordered by Enginebuilders.

MAKERS		No., DESCRIPTION, SIZE, &c.
Superheater -	Superheater Co. Ltd.,	N.E.M. T type
Evaporator -	John Inglis Co. Limited	vertical 25 tons per day
Feed Heater -	Darling Bros. Limited	Size 17 surf. 37500 lbs. /hr.
" Filter -	" " "	1 pressure, 1 basket
gravity Air Compressors -	Geo. White & Sons	1 gravity, coke medium
" Reservoirs -		
Dynamo -	Can. Westinghouse Co. Limited	No. 2 volts 110 amps. 272 Total kW. 30
" Engine -	Waterous, Limited	2 s.c. steam 8" x 11" 575 RPM
Electric Auxiliaries	refrig. York Ice Machine Corp.	Freon 12 gas. 2 L twin cyl. 25 H.P.
	Motor by Leland Electric Co.	Model 28E 2 H.P. 15 amps. 115V

Particulars of Materials—Plates, Pipes, Forgings, and Castings.

Boilers and Air Reservoirs	MAIN		AUX. OR DONKEY	
Makers of Plates (Shell) -				
" " (Flanging) -	Lloyd's survey and			
" " (Furnace) -	certificates.			
" Stay Bars -				
" Rivets -				
" Tubes -				
" Furnaces -				
Engine Forgings and Castings, &c.	No.	MATERIAL *	MADE BY	FINISHED BY
Crank Shaft Body Pieces -	5	I.S.		Dom. Engineering Works, Ltd.,
" " Pins -	3	"		" " " "
" " Webs -	6	C.S.	Lloyd's survey	" " " "
Piston Rods -	3	I.S.	and certificates.	" " " "
Connecting Rods -	3	"		" " " "
Crossheads -	3	"		" " " "
Turbine Spindles -				
" Discs or Drums -				
" Pinions -				
Reduction Gear Shafts -				
Main Gear Shafts -				
" Motor Shafts -				
" Generator Shafts -				
Thrust Shafts -	1	I.S.		Dom. Engineering Works, Ltd.,
Intermediate Shafts -	6	"	Lloyd's survey	" Hydraulic" mach Co. Ltd.
Propeller Shafts -	1	"	and certificates.	" " " "
Steel Castings -				
Aux. Eng. Crank Shafts -				
Propeller -	1	M.B.	The Wm. Kennedy & Sons, Limited, Owen Sound, Ontario.	
Pipes, Main Steam, Air, &c.			Steel Page-Hersey Tubes, Ltd.,	Marine Industries, Ltd.,
" feed		"	"	" " "
			Copper Anaconda American Brass Ltd.,	" " "

* I—Scrap Iron ; Scrap Steel ; I S—Ingot Steel ; C S—Cast Steel ; B I—Bar Iron