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THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

Machinery Particulars

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

of the single, triple, screw motorship "CORADY" (ex LCIL 288)
twin, quadruple

PARTICULARS
PRELIMINARY

Shipbuilders: New Jersey Shipbuilding Corporation New Jersey USA. Yard No.

Enginebuilders: General Motors Corporation Detroit, Mich. USA. Works No.

Boilermakers (Main)..... Works No.

.. (Donkey)..... Works No.

Description of Propelling Machinery: General Motors Quadruple Sets - Four 6-cylinder 2-stroke cycle, single acting, airless injection, non-reversing diesel engines, connected to each shaft through plate clutches single reduction gearing - Twin screws.

BOILERS

Boilers: Main No. SE Cylindrical Multitubular..... W.P.: No. Water Tube. Type..... W.P. { Drum S'heater

Int. diameter..... length..... Heating Surface each..... Grate Surface each.....

Fuel: Coal, Oil, Coal and Oil. Draught: Natural, Closed Ashpit, Closed Stokehold, Induced. Are Superheaters fitted?.....

Safety valves No. Diar. Rule diar. Superheater Heating Surface.....

Boilers: Aux. No. Donkey Type..... W.P.

Int. diameter..... length height..... Heating Surface each..... Grate Surface each.....

Safety valves No. Diar. Rule diar. Fuel..... Superheater Heating Surface.....

Main Steam Pipes: Material..... welded, brazed, seamless

Steam Engines: No. of sets..... Cylinder diars..... Stroke..... 35.3
176

IHP each..... at..... RPM. Total capacity LP cylinder (each engine).....

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 Spur type..... Speed reduction ratio 3.23:1
Double 4 engs each

Oil Engines: No. of sets Two of 6 Cylr. 4 cycle single acting non reversing. Type General Motors model 671 RCF 3.
double direct

Cyl. diars. 4 1/4" Stroke 5" Bearing span..... (Max BHP - 225 per engine)

Max. BHP each 900 at 2100 rev. 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. Internal diar. W.P. capacity each..... cub. ft.

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

No. AC motors..... volts..... amps..... BHP each at..... RPM

$$\frac{3 \times 435 \times 64}{510} = 379$$

$$\frac{3 \times 555 \times 64}{650} = 379$$

(var. factor prop?)

Shafting: diars. crank 2 3/4" pin 3 1/2" journal thrust 3 1/2" intermediate 4 1/4" propeller* 4 1/4"

Rule diameters..... "..... "..... 3.79" *..... 4.29" *

Propeller: diar. 46" pitch Variable surface..... Max. RPM 650..... Tailshaft liner continuous non-continuous oil lubricated

Date of Trial Trip April 7, 1948 IHP..... SHP..... BHP..... RPM..... Knots.....

* Scantlings to suit 435 BHP each engine at 510 rpm. 26
1. 3 engines/shaft at 145 BHP ea
or 2 engs/shaft
at full power + 1/2 p

Surveyor's Signature Ab Campbell

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 placed.

* The size required here is the shaft diameter at top of cone in way of propeller.

Particulars of Auxiliary Machinery Ordered by Enginebuilders.

MAKERS		No., DESCRIPTION, SIZE, &c.
Superheater - - -		
Evaporator - - -		
Feed Heater - - -		
„ Filter - - -		
Air Compressors - -		
„ Reservoirs - - -		
Dynamo - - -	General Motors Model I 3609.	No. 2 volts 120 amps 167 Total kW 40.
„ Engine - - -	General Motors Model 2003.	Two - 2 cylinders 2 1/2 x 5 1/4 + 5
Dynamo - - -		No. volts amps Total kW.
„ Engine - - -		
Electric Auxiliaries -		

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

Boilers and Air Reservoirs	MAIN	AUX. OR DONKEY
Makers of Plates (Shell) - -		
„ „ (Flanging) - - -		
„ „ (Furnace) - - -		
„ Stay Bars - - -		
„ Rivets - - -		
„ Tubes - - -		
„ Furnaces - - -		

Engine Forgings and Castings, &c.	No.	MATERIAL *	MADE BY	FINISHED BY
Crank Shaft Body Pieces -				
„ „ Pins - - -				
„ „ Webs - - -				
Piston Rods - - -				
Connecting Rods - - -				
Crossheads - - -				
Turbine Spindles - - -				
„ Discs or Drums - - -				
„ Pinions - - -				
Reduction Gear Shafts - -				
Main Gear Shafts - - -				
„ Motor Shafts - - -				
„ Generator Shafts - - -				
Thrust Shafts - - -				
Intermediate Shafts - - -				
Propeller Shafts - - -				
Steel Castings - - -				
Aux. Eng. Crank Shafts - -				
Propeller - - -				
Pipes, Main Steam, Air, &c. -				

ITEMS WHICH ARE SUBJECT TO MATERIAL TESTS

Handwritten notes and stamps:

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