

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

Machinery Particulars

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

of the ~~single, triple,~~ SCREW MOTORSHIP EMPIRE FASHION A/MS 809
~~twin, quadruple~~

PARTICULARS

PRELIMINARY

Shipbuilders MESSRS GOOLE SHIPBUILDING & REPAIRING CO LTD. Yard No. 420
Enginebuilders Blackstone & Co., Ltd. Works No. 46007

Boilermakers (Main) Works No.
" (Donkey) Works No.

Description of Propelling Machinery } Type EPVMDR. 7. Vertical cold starting direct
reversing diesel engine.

BOILERS

Boilers: Main No. SE DE Cylindrical Multitubular : No. Water Tube. Type W.P.

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 type Diar. Rule diar.

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

Int. diameter length height Heating Surface each Grate Surface each

Safety valves type Diar. Rule diar. Fuel Draught

Main Steam Pipes: Material welded, brazed, seamless

Steam Engines: No. of sets Cylinder diars. Stroke

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~~ Double reduction. Speed reduction ratio. 2 to 1

Oil Engines: No. of sets 1 of 7 Cylr. 4 cycle ~~single~~ double acting clutch reversing. Type EPVMDR. 7.

Cyl. diars. 8 3/4" Stroke 11 1/2" Bearing span. 9 1/2" Total capacity cylrs. (each engine) 4840 cu. ins.

BHP each 280 at 600 RPM. Mean Indicated pressure 92 lb. per sq. in. Max. firing pressure 720 lb. per sq. in.

Flywheel : Weight 525 tons, Diameter 2.575 ft. Balance Weights : Total weight at radius of gyration tons at ft.

Starting air reservoirs : No. 2 ~~riveted,~~ seamless, Internal diar. 1'-11 7/8" W.P. 300 capacity each 11.2 cub. ft.

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

No. AC motors volts amps BHP each at RPM

Shafting: diars. crank motor 6 1/4" thrust intermediate 4 1/4" propeller 5 1/4"
PIN 5 3/4"

Rule diameters " " " " " "

Propeller: diar. 64 1/2" pitch 46 surface 12 1/2 Eng. 600 Propeller shaft continuous
ROOT 37 SHAFT 300 non-continuous
oil lubricated

Deck
Date of Trial Trip 21-8-44 IHP SHP RPM 500 Knots

Class : MBS
See flyleaf in Register

Surveyor's Signature

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.

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Particulars of Auxiliary Machinery Ordered by Enginebuilders.

	MAKERS	No., DESCRIPTION, SIZE, &c.
Superheater - -		
O F Burning Plant - -		
Evaporator - -		
Feed Heater - -		
„ Filter - -		
Air Compressors - -	Hamworthy Eng. Co.	
„ Reservoirs - -	Ruston & Hornsby.	(2) No 2 type . 11.2 cu ft capacity
Dynamo - -	SUNDERLAND FORGE	G 3318
„ Engine - -	RUSTON & HORNSBY LTD.	(2) No G 3317 volts 110 amps 547 Total kW 6. EACH
Electric Auxiliaries - -		(2) 2VTHZ 2Cyl. 4cycle VERTICAL DIESEL

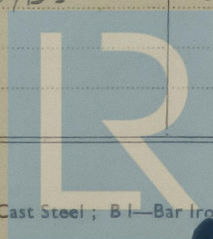
Particulars of Materials—Plates, Pipes, Forgings, and Castings.

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

Engine Forgings and Castings, &c.	No.	MATERIAL *	MADE BY	FINISHED BY
Crank Shaft Body Pieces -)				
„ „ Pins - -)			Mitchell Shackleton.	do.
„ „ Webs - -)				
Piston Rods - -				
Connecting Rods - -			Kirkstall Forge Co.	do.
Crossheads - -				
Turbine Spindles - -				
„ Discs or Drums - -				
„ Pinions - -				
Reduction Gear Shafts - -			Clarks Crank & Forge Co.	do.
Main Gear Shafts - -				
„ Motor Shafts - -				
„ Generator Shafts - -				
Thrust Shafts - -				
Intermediate Shafts - -	1	STEEL	Clarks Crank & Forge Co.	do. BRUNTONS
Propeller Shafts - -	1	„	„ „ „	„
Steel Castings - -				
Aux. Eng. Crank Shafts - -	2	STEEL	RUSTON & HORNSBY	RUSTON & HORNSBY.
Propeller - -	1	C.I.	BRUNTONS SUDBURY	BRUNTONS SUDBURY
Pipes, Main Steam, Air, &c. - -	1	Steel.	STEWART & LLOYDS	STAR. VENTILATION.

ITEMS WHICH ARE SUBJECT TO MATERIAL TESTS

* I—Scrap Iron ; S—Scrap Steel ; IS—Ingot Steel ; CS—Cast Steel ; BI—Bar Iron.



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