

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

C114
5423
G 420

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

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

PRELIMINARY PARTICULARS

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 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

PROPELLING MACHINERY

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: ~~Double~~ ^{Single} reduction _____ Speed reduction ratio 2 to 1

Oil Engines: No. of sets 1 of 7 Cylr. 4 cycle ~~double~~ ^{single} 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.
WR2 = 4380 in x 8.

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,} welded, 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"

Rule diameters _____ " _____ " _____ " _____ "

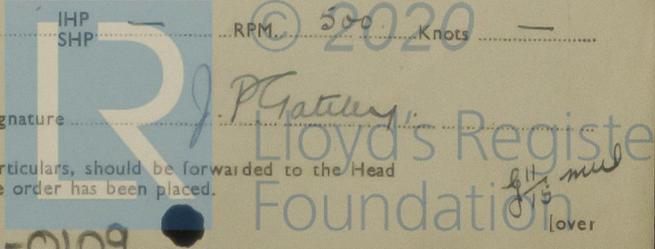
Propeller: diar. 64 1/2" pitch TIP 46 surface 2 1/2 RPM Eng. 600 Propeller shaft liner continuous
ROOT 37 SHAFT 300 non-continuous oil lubricated

Date of Trial Trip Deck 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.



002583-002591-0109

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 cuft capacity
Dynamo - - -	SUNDERLAND FORGE	G 3318
„ Engine - - -	RUSTON & HORNSBY LTD.	(2) No G 3317 volts 110 amps 547 Total kW 6. EACH (2) 2VTHZ 2Cyl. 4cycle VERTICAL DIESEL
Electric Auxiliaries - - -		

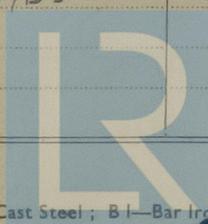
Particulars of Materials—Plates, Pipes, Forgings, and Castings.

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

ITEMS WHICH ARE SUBJECT TO MATERIAL TESTS

Engine Forgings and Castings, &c.	No.	MATERIAL *	MADE BY	FINISHED BY
Crank Shaft Body Pieces - - -)		Mitchell Shackleton.	do.
„ „ Pins - - -				
„ „ Webs - - -				
Piston Rods - - -			Kirkstall Forge Co.	do.
Connecting Rods - - -				
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.

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



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