

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

F.E.

5645

C116
G443

94

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

of the ~~single, triple, twin, quadruple~~ SCREW MOTORSHIP "EMPIRE SEAFARER" A/MS 1126

PARTICULARS

Shipbuilders Crook Shipbuilding & Repairing Co Ltd Yard No. 443
Enginebuilders BRITISH POLAR ENGINES LTD Works No. E 545

PRELIMINARY

Boilermakers (Main) Works No. _____
" (Donkey) Works No. _____
Description of Propelling Machinery ONE SET, BRITISH POLAR M44 I TRUNK PISTON TWO STROKE MARINE TYPE 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 No. _____
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: Single reduction _____ Speed reduction ratio _____
Double _____
Oil Engines: No. of sets 1 of 4 Cylr. 2 cycle single acting clutch reversing. Type BRITISH POLAR M44 I
double direct
Cyl. diars. 250 Stroke 420 Bearing span 366 Total capacity cylrs. (each engine) 2.92 ft³
BHP each 300 at 300 RPM. Mean Indicated pressure 96.7 lbs/in² Max. firing pressure 782 lbs/in²
Flywheel: Weight 786 tons Diameter 3.44 ft. Balance Weights: Total weight at radius of gyration _____ tons at _____ ft.
Starting air reservoirs: No. 2 riveted, _____ Internal diar. 21" W.P. 355 lbs capacity each 15 cub. ft.
seamless, _____
welded, _____
Electric Propulsion: No. _____ AC generators _____ volts _____ amps _____ kW each at _____ RPM
DC generators _____
No. _____ AC motors _____ volts _____ amps _____ BHP each at _____ RPM
DC motors _____

Shafting: diars. crank 6.69 thrust 8.032" intermediate 6.5" propeller 5.25"
Rule diameters 6.32" 6.32" " 4.11" " 4.77"
Propeller: diar. 66" pitch TIP 46" surface 13.6 ft RPM 300 Propeller shaft continuous
Root 37.5" oil lubricated

Date of Trial Trip 31-7-45 IHP BHP 300 RPM 300 SHP 300 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 Shipbuilders.

	MAKERS	No., DESCRIPTION, SIZE, &c.
Superheater - - -		
O F Burning Plant - - -		
Evaporator - - -		
Feed Heater - - -		
„ Filter - - -		
Air Compressors - - -	THE HAMWORTHY ENGINEERING CO	2 Vert 2 Stage Single Branch Water cooled
„ Reservoirs - - -	MECHANICAL LTD	2 GL RIVETED 355 lbs
Dynamo - - -	MESSRS CROMPTON PARKINSON	FLA 3894 No. 110 volts 110 amps 68.2 Total kW 15
„ Engine - - -	CROSSLEY BROS.	2 B.W.B. Single Cylinder 4 cycle SA Rival
Electric Auxiliaries - - -		

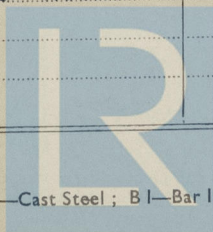
Particulars of Materials—Plates, Pipes, Forgings, and Castings.

Boilers and Air Reservoirs	MAIN	AUX. OR DONKEY
Makers of Plates (Shell) - - -	CALVILLE	
„ „ (Flanging) - - -	D°	
„ „ (Furnace) - - -		
„ Stay Bars - - -		
„ Rivets - - -	RIVET BOLT & NUT L° L°	
„ Tubes - - -		
„ Furnaces - - -		

Engine Forgings and Castings, &c.	No.	MATERIAL *	MADE BY	FINISHED BY
Crank Shaft Body Pieces	1	I.S.	MITCHELL SHACKLETON	BRITISH POLAR ENGL°
„ „ Pins - - -				
„ „ Webs - - -				
Piston Rods	4	I.S.	D°	D°
Connecting Rods	1			
Crossheads - - -				
Turbine Spindles - - -				
„ Discs or Drums - - -				
„ Pinions - - -				
Reduction Gear Shafts - - -				
Main Gear Shafts - - -				
„ Motor Shafts - - -				
„ Generator Shafts - - -				
Thrust Shafts - - -	1	I.S.	LANGLEY FORGE	D°
Intermediate Shafts - - -	1	I.S.		
Propeller Shafts - - -	1	I.S.		
Steel Castings - - -				
Aux. Eng. Crank Shafts - - -				
Propeller - - -	1	C.I.	HARPER PHILLIPS	HARPER PHILLIPS
Pipes, Main Steam, Air, &c. - - -	2	SO. COPPER	YORKSHIRE COPPER WORKS	STAR VENTILATION

ITEMS WHICH ARE SUBJECT TO MATERIAL TESTS

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



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