

THE BRITISH CORPORATION REGISTER *(Empire Mares)*  
OF SHIPPING AND AIRCRAFT 11 JAN 1945

11 JAN 1945

## Machinery Particulars

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

f the single, triple,  
twin, quadruple

Shipbuilders..... Sir James Laing & Sons Ltd. (L.R. ship) ..... Yard No. 755

Enginebuilders.....Metropolitan Vickers Electrical Co.Ltd.....Turbine Works No. 4393  
Gearing.....".....4399

Millmakers (Main) ..... Works No. ....

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

description of } one set two cylinder cross compound impulse  
propelling Machinery } turbine with double reduction gearing.

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

it. 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. Donkey No. Type W.P.

length  
height

Heating Surface each

Grate Surface each

Safety valves type ..... Diar. .... Rule diar. .... Fuel ..... Draught .....

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

Team Engines: No. of sets..... Cylinder diars..... Stroke.....

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

Turbines: No. of sets.....1.....HP IP LP Turbines on each shaft :.....H.P. & L.P......Ahead & in L.P. casing.....one.....Aster

HP each 6800 at 116 RPM. Astern SHP 3536 Type Metro-Vic Impulse Direct

Bearing: ~~single~~ Double reduction..... double helical.....

Speed reduction ratio.....

1st HP 5.432:1 2nd reduction LP 3.918:1 6.3:1

**Diesel Engines:** No. of sets..... of..... Cylr. 4 cycle <sup>single</sup><sub>double</sub> acting <sup>clutch</sup><sub>direct</sub> reversing. Type.....

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

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

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

starting air reservoirs : No. .... riveted, ..... W.P. .... capacity each ..... cub. ft.

.....

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

No. .... AC  
DC motors ..... volts ..... amps ..... BHP each at ..... RP

### Shifting: diars. crank motor thrust intermediate propeller

Rule diameters

Propeller: diar. .... pitch ..... surface ..... RPM ..... Propeller shaft liner non-continuous oil lubricated

Date of Trial Trip	IHP		RPM	Knots
	CHP			
11/1/19	11.5	11.5	11.5	11.5
11/2/19	11.5	11.5	11.5	11.5
11/3/19	11.5	11.5	11.5	11.5
11/4/19	11.5	11.5	11.5	11.5
11/5/19	11.5	11.5	11.5	11.5
11/6/19	11.5	11.5	11.5	11.5
11/7/19	11.5	11.5	11.5	11.5
11/8/19	11.5	11.5	11.5	11.5
11/9/19	11.5	11.5	11.5	11.5
11/10/19	11.5	11.5	11.5	11.5
11/11/19	11.5	11.5	11.5	11.5
11/12/19	11.5	11.5	11.5	11.5
11/13/19	11.5	11.5	11.5	11.5
11/14/19	11.5	11.5	11.5	11.5
11/15/19	11.5	11.5	11.5	11.5
11/16/19	11.5	11.5	11.5	11.5
11/17/19	11.5	11.5	11.5	11.5
11/18/19	11.5	11.5	11.5	11.5
11/19/19	11.5	11.5	11.5	11.5
11/20/19	11.5	11.5	11.5	11.5
11/21/19	11.5	11.5	11.5	11.5
11/22/19	11.5	11.5	11.5	11.5
11/23/19	11.5	11.5	11.5	11.5
11/24/19	11.5	11.5	11.5	11.5
11/25/19	11.5	11.5	11.5	11.5
11/26/19	11.5	11.5	11.5	11.5
11/27/19	11.5	11.5	11.5	11.5
11/28/19	11.5	11.5	11.5	11.5
11/29/19	11.5	11.5	11.5	11.5
11/30/19	11.5	11.5	11.5	11.5
12/1/19	11.5	11.5	11.5	11.5
12/2/19	11.5	11.5	11.5	11.5
12/3/19	11.5	11.5	11.5	11.5
12/4/19	11.5	11.5	11.5	11.5
12/5/19	11.5	11.5	11.5	11.5
12/6/19	11.5	11.5	11.5	11.5
12/7/19	11.5	11.5	11.5	11.5
12/8/19	11.5	11.5	11.5	11.5
12/9/19	11.5	11.5	11.5	11.5
12/10/19	11.5	11.5	11.5	11.5
12/11/19	11.5	11.5	11.5	11.5
12/12/19	11.5	11.5	11.5	11.5
12/13/19	11.5	11.5	11.5	11.5
12/14/19	11.5	11.5	11.5	11.5
12/15/19	11.5	11.5	11.5	11.5
12/16/19	11.5	11.5	11.5	11.5
12/17/19	11.5	11.5	11.5	11.5
12/18/19	11.5	11.5	11.5	11.5
12/19/19	11.5	11.5	11.5	11.5
12/20/19	11.5	11.5	11.5	11.5
12/21/19	11.5	11.5	11.5	11.5
12/22/19	11.5	11.5	11.5	11.5
12/23/19	11.5	11.5	11.5	11.5
12/24/19	11.5	11.5	11.5	11.5
12/25/19	11.5	11.5	11.5	11.5
12/26/19	11.5	11.5	11.5	11.5
12/27/19	11.5	11.5	11.5	11.5
12/28/19	11.5	11.5	11.5	11.5
12/29/19	11.5	11.5	11.5	11.5
12/30/19	11.5	11.5	11.5	11.5
12/31/19	11.5	11.5	11.5	11.5

**Class : M B S**  
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.

013917-013926-0290



# Particulars of Auxiliary Machinery Ordered by Enginebuilders.

MAKERS		No., DESCRIPTION, SIZE, &c.			
Superheater -	-				
OF Burning Plant -	-				
Evaporator -	-				
Feed Heater -	-				
„ Filter -	-				
Air Compressors -	-				
„ Reservoirs -	-				
Dynamo -	-	No.	volts	amps	Total
„ Engine -	-				
Electric Auxiliaries -	-				

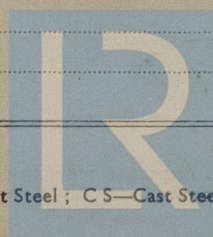
# Particulars of Materials—Plates, Pipes, Forgings, and Castings.

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 -	-		W. Beardmore & Sons Ltd.	Metropolitan Vickers El.	
„ Discs or Drums -	-		English Steel Corpn. Ltd.	-do-	-do-
„ Pinions -	-		- do -	-do-	-do-
Reduction Gear Shafts -	-		- do -	-do-	-do-
Main Gear Shafts -	-		- do -	-do-	-do-
„ Motor Shafts -	-				
„ Generator Shafts -	-				
Thrust Shafts -	-				
Intermediate Shafts -	-				
Propeller Shafts -	-				
Steel Castings -	-				
Aux. Eng. Crank Shafts -	-				
Propeller -	-				
Pipes, Main Steam, Air, &c. -	-				

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



© 2021

Lloyd's Register Foundation