

Bd. 15/6/52

Report on ^{Aux} Steam Turbine Machinery. No. 125636

Report 21 OCT 1952 When handed in at Local Office 21 OCT 1952 Port of LONDON Received at London Office 22 NOV 1952
Survey held at PETERBOROUGH Date, First Survey, 1st July Last Survey, 9th Sept 1952
(Number of Visits 3)

in the T.w. sc. s/s "BRAEMAR CASTLE" Tons (Gross) Net

By whom built Harland & Wolff Ltd Yard No. 1459 When built
By whom made Peter Brotherhood Ltd Engine No. 20600 E When made 1952-9
By whom made Boiler No. When made
Owners Union Castle Mail S.S. Co. Ltd Port belonging to
Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
Which Vessel is intended

TURBINE ENGINES, &c.—Description of Engines Horizontal Multi-stage impulse type

Ahead Direct coupled, single reduction geared to propelling shafts. No. of primary pinions to each set of reduction gearing
Astern double reduction geared

Alternating Current Generator phase periods per second
Direct Current Generator rated 750 Kilowatts 225 Volts at 800 revolutions per minute;
power for driving Propelling Motors, Type
Kilowatts Volts at revolutions per minute Direct coupled, single or double reduction geared to propelling shafts.

H. P.			I. P.			L. P.			ASTERN.		
HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
0.7"	22.825"										
1.76"	23.885"										
1.845"	22.97"										
1.945"	23.07"										
1.11"	23.235"										
1.67"	23.795"										
2.47"	25.395"										
3.16"	26.285"										
4.85"	28.475"										

Power at each turbine H.P. 6000 1st reduction wheel
I.P. Revolutions per minute, at full power, of each Turbine Shaft
L.P. main shaft 800

Pitch Circle Diameter 1st pinion 6.10847" 1st reduction wheel
2nd pinion main wheel 45.88467" Width of Face 1st reduction wheel
main wheel 10"

Pinion Shafts, diameter at bearings External 1st 4 1/4" 2nd diameter at bottom of pinion teeth
Internal 1st 5.88587" 2nd

Generator Shaft, diameter at bearings
Propelling Motor Shaft, diameter at bearings

Thrust Shaft, diameter at collars
Screw Shaft, diameter as per rule as fitted

Is the tube shaft fitted with a continuous liner
Is the after end of the liner made watertight in the

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
Is an approved Oil Gland or other appliance fitted at the after end of the tube

Length of Bearing in Stern Bush next to and supporting propeller
Pitch No. of Bades State whether Moveable Total Developed Surface square feet

Can the H.P. or I.P. Turbines exhaust direct to the
Feed Pumps No. and size How driven

Lubricating Oil Pumps, including Spare Pump, No. and size One
Suctions, connected both to Main Bilge Pumps and Auxiliary

Independent Power Pump Direct Suctions to the Engine Room
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes

Are they fitted with Valves or Cocks
Are the Overboard Discharges above or below the deep water

Are the Blow Off Cocks fitted with a spigot and brass
How are they protected

Have they been tested as per rule
Cocks, Valves and Pumps in connection with the machinery and all boiler mountings accessible at all times

Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from



