

# Report on Steam Turbine Machinery.

No. 105632

4a. of writing Report 19 When handed in at Local Office 12 OCT 1948 Port of NEWCASTLE-ON-TYNE Received at London Office 29 OCT 1948  
 in Survey held at WALLSEND Date, First Survey 31/8/48 Last Survey 23/9/48  
 g. Book 1702 on the TURBO ELECT SS. "BEECHER ISLAND" Tons {Gross 10,668 Net 6,317  
 ilt at MOBILE By whom built ALABAMA D.D. SHIPBUILDING Yard No. 2043 When built 1944  
 gines made at LYNN MASS By whom made GENERAL ELECTRIC CO Engine No. 68256 When made 1944  
 ilers made at NEW YORK By whom made COMBUSTION ENGINEERING INC Boiler No. 7863-4 When made 1944  
 aft Horse Power at Full Power 6,600 Owners BRITISH TANKER CO Port belonging to LONDON  
 m. Horse Power as per Rule 1485 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES  
 ade for which Vessel is intended CARRYING PETROLEUM IN BULK.

## STEAM TURBINE ENGINES, &c.—Description of Engines. TURBO ELECTRIC.

Ahead ONE Direct coupled, single reduction geared } to propelling shafts. No. of primary pinions to each set of reduction gearing. ✓  
 of Turbines Astern. double reduction geared }  
 ect coupled to { Alternating Current Generator 3 phase 62 periods per second } rated 5,400 Kilowatts 2,370 Volts at 3,715 revolutions per minute;  
 supplying power for driving ONE Propelling Motors, Type MARINE SYNCHRONOUS  
 ed 5,400 Kilowatts 2,370 Volts at 93 revolutions per minute. Direct coupled, single or double reduction geared to ONE propelling shaft.

|               | 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. |
| 1st Expansion | 7/8"              | 34"              | 2            |                   |                  |              |                   |                  |              |                   |                  |              |
| 2nd           | 1"                | 34"              | 1            |                   |                  |              |                   |                  |              |                   |                  |              |
| 3rd           | 1 1/4"            | 34 3/8"          | 1            |                   |                  |              |                   |                  |              |                   |                  |              |
| 4th           | 1 5/8"            | 35 1/2"          | 1            |                   |                  |              |                   |                  |              |                   |                  |              |
| 5th           | 7/8"              | 42 1/2"          | 1            |                   |                  |              |                   |                  |              |                   |                  |              |
| 6th           | 1 3/8"            | 43 1/2"          | 1            |                   |                  |              |                   |                  |              |                   |                  |              |
| 7th           | 2 1/8"            | 45 1/2"          | 1            |                   |                  |              |                   |                  |              |                   |                  |              |
| 8th           | 2 1/2"            | 47"              | 1            |                   |                  |              |                   |                  |              |                   |                  |              |
| 9th           | 5 1/2"            | 49 1/2"          | 1            |                   |                  |              |                   |                  |              |                   |                  |              |
| 10th          | 9"                | 56"              | 1            |                   |                  |              |                   |                  |              |                   |                  |              |

ft Horse Power at each turbine H.P. 6,600 ✓ I.P. ✓ L.P. ✓  
 Revolutions per minute, at full power, of each Turbine Shaft H.P. 3,715 1st reduction wheel. ✓  
 I.P. ✓ L.P. ✓ main shaft. ✓ 90

or Shaft diameter at journals H.P. ✓ I.P. ✓ L.P. ✓ Pitch Circle Diameter { 1st pinion. ✓ 1st reduction wheel. ✓ 2nd pinion. ✓ main wheel. ✓ Width of Face { 1st reduction wheel. ✓ main wheel. ✓

tance between centres of pinion and wheel faces and the centre of the adjacent bearings { 1st pinion. ✓ 1st reduction wheel. ✓ 2nd pinion. ✓ main wheel. ✓

ible Pinion 1st. ✓ 2nd. ✓ Pinion Shafts, diameter at bearings External 1st. ✓ 2nd. ✓ diameter at bottom of pinion teeth 1st. ✓ 2nd. ✓

eel Shafts, diameter at bearings { 1st. ✓ main. ✓ diameter at wheel shroud, { 1st. ✓ Generator Shaft, diameter at bearings. ✓ main. ✓ Propelling Motor Shaft, diameter at bearings. ✓

mediate Shafts, diameter as per rule. 16.56" ✓ as fitted. 16 7/8" ✓ Thrust Shaft, diameter at collars as per rule. 17.34" as fitted. 17 1/2" - 10" AT COLLAR

e Shaft, diameter as per rule. ✓ as fitted. ✓ Screw Shaft, diameter as per rule. 18.185" as fitted. 18 5/8" ✓ Is the { tube } shaft fitted with a continuous liner { YES ✓ { screw }

ize Liners, thickness in way of bushes as per rule. .850" as fitted. 1 1/8" Thickness between bushes as per rule. .643" as fitted. 1" Is the after end of the liner made watertight in the

eller boss. YES If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner. ✓

e liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive. ✓

o liners are fitted, is the shaft lapped or protected between the liners. ✓ Is an approved Oil Gland or other appliance fitted at the after end of the tube

✓ If so, state type. ✓ Length of Bearing in Stern Bush next to and supporting propeller. 7' 4" ✓

eller, diameter 19' 6" Pitch 17' 6" No. of Bades 4 State whether Moveable No Total Developed Surface 138" square feet.

ngle Screw, are arrangements made so that steam can be led direct to the L.P. Turbine. ✓ Can the H.P. or P. Turbines exhaust direct to the

enser. YES No. of Turbines fitted with astern wheels. NONE Feed Pumps { No. and size. 2 TURBO 200 GALS/MIN 1-10" x 1" x 24" How driven. STEAM.

ps connected to the Main Bilge Line { No. and size. 1 FIRE & BUTTERWORTH 450 GALS/MIN 1 FIRE & GENERAL SERVICE 450 GALS/MIN How driven. ELECTRICALLY. 2 BILGE 175 GALS/MIN EACH.

st Pumps, No. and size. FIRE & GEN. SERVICE PUMP Lubricating Oil Pumps, including Spare Pump, No. and size. 2 60 GALS/MIN EACH.

wo independent means arranged for circulating water through the Oil Cooler. YES Suctions, connected both to Main Bilge Pumps and Auxiliary

Pumps, No. and size:—In Engine and Boiler Room. 2-3" COFF FORD 1-3" FATHOMETER COMPARTMENT In Pump Room. 1-4"

Es, &c. 6-3" DIA 1-3 1/2" DIA BILGE WELL 1-3 1/2" DIA DRYWELL 1-3 1/2" BOILER Rm DRAIN 1-3" L.O. SUMP COFFERDAM 1-3" PROPELLER MOTOR RECESS

Water Circulating Pump Direct Bilge Suctions, No. and size. 1-10" DIA. 1 1/8" Independent Power Pump Direct Suctions to the Engine Room

s, No. and size. 2-4" DIA. ✓ Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes. (MILBURN STRAINERS) YES

he Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges. YES

ll Sea Connections fitted direct on the skin of the ship. STEEL PADS WELDED TO SHELL Are they fitted with Valves or Cocks. VALVES ✓

hey fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates. YES Are the Overboard Discharges above or below the deep water

BELOW Are they each fitted with a Discharge Valve always accessible on the plating of the vessel. YES Are the Blow Off Cocks fitted with a spigot and brass

ing plate. YES What pipes pass through the bunkers. NONE How are they protected. ✓

pipes pass through the deep tanks. NONE Have they been tested as per rule. ✓

ll Pipes, Cocks, Valves and Pumps in connection with the machinery and all boiler mountings accessible at all times. YES

arrangement of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery

, or from one compartment to another. YES Is the Shaft Tunnel watertight. YES Is it fitted with a watertight door. YES worked from PLATFORM

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52702

Built at...  
Electrical  
Shaft H  
Machinery  
Trade fo

PLANS.—

TEAM B  
variation of

ure valve... Yes  
shut-off v

Is the em  
to cause a

IL ENG  
per Rule

ENERA

Kw. per  
supplied..

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