

## REPORT ON STEAM TURBINE MACHINERY.

No. 95095

Date of writing Report

19

When handed in at Local Office

12/9/36

Port of

NEWCASTLE-ON-TYNE

Received at London Office

JUN -1 1937

No. in Survey held at

Newcastle on Tyne

Date, First Survey

14 April 36

Last Survey

3 Sept 1936

Reg. Book.

on the

S/S.

(Number of Visits 22.)

Built at

S. Shields

By whom built

John Readhead &amp; Sons Ltd

Yard No.

508

Tons

Gross

6803

Engines made at

do

By whom made

do

Engine No.

508

When built

Engines made at

Newcastle

By whom made

Swan Hunter &amp; Wigham, Riddell &amp; Co

Engine No.

1526

When made

1936

Shaft Horse Power at Full Power

1558

Nom. Horse Power as per Rule

260

Owners

Port belonging to

Trade for which Vessel is intended

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

STEAM TURBINE ENGINES, &c.—Description of Engines *Bauer-Wach Exhaust Steam Turbine*

No. of Turbines

Ahead *one*

Direct coupled

to *one*

propelling shafts

No. of primary pinions to each set of reduction gearing *one*

direct coupled to

Alternating Current Generator

phase

periods per second

rated

Kilowatts

Volts at

revolutions per minute

for supplying power for driving

Propelling Motors, Type

rated

Kilowatts

Volts at

revolutions per minute

Direct coupled, single or double reduction geared to

propelling shafts

TURBINE  
BLADING.

H.P.

I.P.

L.P.

ASTERN.

1ST EXPANSION

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

2ND

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

3RD

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

4TH

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

5TH

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

6TH

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

7TH

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

8TH

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

9TH

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

10TH

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

11TH

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

12TH

HEIGHT OF  
BLADES.DIAMETER  
AT TIP.NO. OF  
ROWS.

Shaft Horse Power at each turbine

H.P. —

I.P. —

L.P. 1558

Revolutions per minute, at full power, of each Turbine Shaft

H.P. —

I.P. —

L.P. 2990

1st reduction wheel

458

main shaft

87.5

Rotor Shaft diameter at journals

H.P. —

I.P. —

L.P. 170 1/2

Pitch Circle

1st pinion 276.959 1/2

Diameter

2nd pinion 461.598 1/2

1st reduction wheel 1808.376 1/2

main wheel 2329.709 1/2

1st pinion 720.340 1/2

2nd pinion 505 1/2

main wheel 590 1/2

Width of

Face

1st reduction wheel 290 1/2

main wheel 660 1/2

1st reduction wheel 1855 1/2

main wheel 590 1/2

Distance between centres of pinion and wheel faces and the centre of the adjacent bearings

1st pinion 720.340 1/2

2nd pinion 505 1/2

main wheel 590 1/2

1st reduction wheel 1855 1/2

main wheel 590 1/2

Flexible Pinion

1st 110 1/2

2nd —

Pinion Shafts, diameter at bearings

External

Internal

1st 170 1/2

2nd 355 1/2

diameter at bottom of pinion teeth

1st 262.31 1/2

2nd 446.95 1/2

Wheel Shafts, diameter at bearings

1st 300 1/2

main 550 1/2

diameter at wheel shroud, 445 1/2

as per rule 15 3/8

as fitted —

Intermediate Shafts, diameter

as per rule —

as fitted —

Tube Shaft, diameter

as per rule —

as fitted —

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

propeller boss

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

If the 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

If two liners are fitted, is the shaft lapped or protected between the liners

If so, slate type

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

Propeller, diameter

Pitch

No. of Blades

State whether Moveable

Total Developed Surface

square feet.

Can the H.P. or L.P. Turbine exhaust direct to the

condenser

No. of Turbines fitted with astern wheels

Feed Pumps

No. and size

How driven

Pumps connected to the Main Bilge Line

No. and size

How driven

Ballast Pumps, No. and size

Are two independent means arranged for circulating water through the Oil Cooler

Pumps, No. and size:—In Engine and Boiler Room

Holds, &amp;c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size

Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes

Are the 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

Are all Sea Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

Are the Overboard Discharges above or below the deep water line

Are the Blow Off Cocks fitted with a spigot and brass covering plate

How are they protected

Have they been tested as per rule

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

The 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 spaces, or from one

apartment to another

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

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Foundation

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