

## REPORT ON STEAM TURBINE MACHINERY. No. 9853

Received at London Office

13th Aug., 1952. Port of PHILADELPHIA, PA.  
in Survey held at Trenton, N. J., Date, First Survey 20th March, Last Survey 9th August, 1952.  
Reg. Book S.S. CHRYSSI (Number of Visits seven)  
on the Tons {Gross  
Net  
By whom built Bethlehem Steel Co. Yard No. 1630 When built 1952  
By whom made De Laval Steam Turb. Co. Engine No. 650575/6 When made "  
By whom made Boiler No. When made  
Orion Shipping Co. Port belonging to  
Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted yes  
Carrying petroleum in bulk.

STEAM TURBINE ENGINES, &amp;c.—Description of Engines 400 K.W. A.C. Turbo Generators (2 units per ship)

Ahead one generator.  
No. of primary pinions to each set of reduction gearing one.  
Alternating Current Generator 3 phase 60 periods per second rated 400 Kilowatts 450 Volts at 1200 revolutions per minute;  
supplying power for driving Ship's auxiliaries

Turbine	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	2nd	3rd											
ST EXPANSION	.550"	.890"	.540"	21.106										
ND	.540"			23.736										
RD	.840			23.126										
TH	.540			23.736										
g 9-2-52TH	.840			24.226										
CH	1.580			24.866										
CH	2.450													
CH														
CH														
CH														
CH														
CH														

4ft Horse Power at each turbine  
Revolutions per minute, at full power, of each Turbine Shaft  
Pitch Circle Diameter  
Width of Face  
reduction wheel 1200  
5905  
reduction wheel 6-1/2"

Distance between centres of pinion and wheel faces and the centre of the adjacent bearings  
1st pinion 5-7/8" reduction wheel 6-3/16"  
2nd pinion

Pinion Shafts, diameter at bearings  
External  
1st 2-1/2" 2nd diameter at bottom of pinion teeth  
5.573

Generator Shaft, diameter at bearings 5.378  
Propelling Motor Shaft, diameter at bearings

Intermediate Shafts, diameter as per rule as fitted  
Thrust Shaft, diameter at collars as per rule as fitted  
Tube Shaft, diameter as per rule as fitted

Shaft, diameter as per rule as fitted  
Is the tube screw shaft fitted with a continuous liner  
Bronze Liners, thickness in way of bushes as per rule as fitted

Thickness between bushes as per rule as fitted  
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

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  
material insoluble in water and non-corrosive  
If two liners are fitted, is the shaft lapped or protected between the liners  
Is an approved Oil Gland

other appliance fitted at the after end of the tube shaft  
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.

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

lenser 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

ast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size

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

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

olds, &c. Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine Room

s, No. and size Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes

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

all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks

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

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

pipes pass through the bunks How are they protected

pipes pass through the deep tanks Have they been tested as per rule



pt. 5c.

e of writing F

To. in S

p. Bb

[illegible]

It at \_\_\_\_\_

ines made

ers made

Manufacture

th and Leng

ickness of pla

changed Two

Class I mass

CLASS I DEGREE

1901

meter of river

joint:—Pla.

centage streng

thickness of plate

ch boiler.....

ed or flanged

Class I vesse

diameter of rivet

ntage streng

1898

Image strength

ness of plat

## Members or Sect

es:—Diamete

to Shell.....

th.....

.....

of rivets.....

n or End

REDLIE

ЕКПЕ.

Engineer Surveyor to Lloyd's Register of Shipping

LLOYD'S  
No. 2799  
9.8.52  
D.J.A.

NEW YORK MAR 25 1953



© 2021

Lloyd's Register  
Foundation