

No. 106705

Received at London Office. 10 NOV 1941
CASTLE-DO-TYNE

on the **TURBO ELECTRIC 'ZIE TOUN'** Tons Gross **10720**

made at Schenectady By whom made G. E. C INBOARD 65960 OUTBOARD 150-517 1943

Horse Power at Full Power... *525 H.P.* Owners... *Batter Shipping Co. Ltd.* Port belonging to... *London*

For which Vessel is intended Carrying Petroleum in Bulk. Is Electric Light fitted Yes

TURBINE ENGINES, &c. Description of Engines... *One single reduction geared impulse turbines*
 Ahead... *One* Direct coupled, *Generator*

Alternating Current Generator.....phase 60.....periods per second } rated 400 Kilowatts 450 Volts at 1200 r.p.m.

Kilowatts.....Volts at.....revolutions per minute. Direct coupled, single or double reduction geared to.....travelling shafts.....

G.	WESTERN.			EASTERN.		
	HEIGHT OF BLADES.	DIAMETER AT TIP	NO. OF ROWS	HEIGHT OF BLADES	DIAMETER AT TIP	NO. OF ROWS
1	1.5	0.5	10	1.5	0.5	10
2	1.5	0.5	10	1.5	0.5	10
3	1.5	0.5	10	1.5	0.5	10
4	1.5	0.5	10	1.5	0.5	10
5	1.5	0.5	10	1.5	0.5	10
6	1.5	0.5	10	1.5	0.5	10
7	1.5	0.5	10	1.5	0.5	10
8	1.5	0.5	10	1.5	0.5	10
9	1.5	0.5	10	1.5	0.5	10
10	1.5	0.5	10	1.5	0.5	10
11	1.5	0.5	10	1.5	0.5	10
12	1.5	0.5	10	1.5	0.5	10
13	1.5	0.5	10	1.5	0.5	10
14	1.5	0.5	10	1.5	0.5	10
15	1.5	0.5	10	1.5	0.5	10
16	1.5	0.5	10	1.5	0.5	10
17	1.5	0.5	10	1.5	0.5	10
18	1.5	0.5	10	1.5	0.5	10
19	1.5	0.5	10	1.5	0.5	10
20	1.5	0.5	10	1.5	0.5	10
21	1.5	0.5	10	1.5	0.5	10
22	1.5	0.5	10	1.5	0.5	10
23	1.5	0.5	10	1.5	0.5	10
24	1.5	0.5	10	1.5	0.5	10
25	1.5	0.5	10	1.5	0.5	10
26	1.5	0.5	10	1.5	0.5	10
27	1.5	0.5	10	1.5	0.5	10
28	1.5	0.5	10	1.5	0.5	10
29	1.5	0.5	10	1.5	0.5	10
30	1.5	0.5	10	1.5	0.5	10
31	1.5	0.5	10	1.5	0.5	10
32	1.5	0.5	10	1.5	0.5	10
33	1.5	0.5	10	1.5	0.5	10
34	1.5	0.5	10	1.5	0.5	10
35	1.5	0.5	10	1.5	0.5	10
36	1.5	0.5	10	1.5	0.5	10
37	1.5	0.5	10	1.5	0.5	10
38	1.5	0.5	10	1.5	0.5	10
39	1.5	0.5	10	1.5	0.5	10
40	1.5	0.5	10	1.5	0.5	10
41	1.5	0.5	10	1.5	0.5	10
42	1.5	0.5	10	1.5	0.5	10
43	1.5	0.5	10	1.5	0.5	10
44	1.5	0.5	10	1.5	0.5	10
45	1.5	0.5	10	1.5	0.5	10
46	1.5	0.5	10	1.5	0.5	10
47	1.5	0.5	10	1.5	0.5	10
48	1.5	0.5	10	1.5	0.5	10
49	1.5	0.5	10	1.5	0.5	10
50	1.5	0.5	10	1.5	0.5	10
51	1.5	0.5	10	1.5	0.5	10
52	1.5	0.5	10	1.5	0.5	10
53	1.5	0.5	10	1.5	0.5	10
54	1.5	0.5	10	1.5	0.5	10
55	1.5	0.5	10	1.5	0.5	10
56	1.5	0.5	10	1.5	0.5	10
57	1.5	0.5	10	1.5	0.5	10
58	1.5	0.5	10	1.5	0.5	10
59	1.5	0.5	10	1.5	0.5	10
60						

[illegible][illegible]

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[illegible]

H.P. 700

H.P. $2\frac{1}{2}$ Pitch Circle (1st pinion 5.43 1st reduction wheel 25.56 2nd reduction wheel 8.25)

1st pinion 6.625 1st reduction wheel 6.625

Pinion } 1st **Pinion Shaft Diameter at bearing** External 1st { **4"** 2nd { 1st **5.125"**

afts, diameter at bearings { 1st..... 4" diameter at wheel shroud { 1st..... Generator Shaft, diameter at bearings..... 4"

.....
 as per rule.....
 as fitted.....

as fitted.....

boss..... 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

diameter.....Pitch.....No. of Blades.....State whether Moveable.....Total Developed Surface.....square feet.
 Screw, are arrangements made so that steam can be led direct to the L.P. Turbine.....Can the H.P. or I.P. Turbines exhaust direct to the

No. of Turbines fitted with astern wheels.....	Feed Pumps.....	How driven.....
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Lubricating Oil Pumps, including Spare Pump No. and size

ps, No. and size:—In Engine and Boiler Room..... In Pump Room.....

er Circulating Pump Direct Bilge Suctions, No. and size.....Independent Power Pump Direct Suctions to the Engine Room

Connections fitted direct on the ship of the ship. Are they fitted with Valves or Cocks

Are 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

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

gement 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

BOILERS, &c.—(Letter for record.....) Total Heating Surface of Boilers.

<i>Is Forced Draft fitted.....</i>	<i>No. and Description of Boilers.....</i>	<i>Working Pressure.....</i>
.....

Is a Report on Main Boilers now forwarded?

Is { a Donkey } Boiler fitted?
{ an Auxiliary }

If so, is a report now forwarded?

Is the donkey boiler intended to be used for domestic purposes only.

Plans. Are approved plans forwarded herewith for Shafting.....Main Boilers.....Auxiliary Boilers...../Donkey Boilers.
(If not, state date of approval)

Superheaters.....General Pumping Arrangements.....Oil Fuel Burning Arrangements.

SPARE GEAR.

Has the spare gear required by the Rules been supplied.

State the principal additional spare gear supplied

The foregoing is a correct description,

<i>Dates of Survey while building</i>	<i>{</i>	<i>During progress of)</i>
		<i>work in shops - -)</i>
		<i>During erection on)</i>
		<i>board vessel - -)</i>
		<i>Total No. of visits.....</i>

Dates of Examination of principal parts—Casings..... Rotors..... Blading..... Gearing.....

Wheel shaft..... Thrust shaft..... / Intermediate shafts..... Tube shaft..... Screw shaft.....

Propeller.....Stern tube.....Engine and boiler seatings.....Engine holding down bolts.....

Completion of fitting sea connections.....Completion of pumping arrangements.....Boilers fixed.....Engines tried under steam

Main boiler safety valves adjusted...../.....Thickness of adjusting washers.....

Rotor shaft, Material and tensile strength.....Identification Mark.

<i>Flexible Pinion Shaft, Material and tensile strength.....</i>	<i>Identification Mark</i>
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Pinion shaft, Material and tensile strength.....	Identification Mark

1st Reduction Wheel Shaft, Material and tensile strength.....	Identification Mark
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Wheel shaft, Material...../.....Identification Mark.....Thrust shaft, Material.....Identification Mark.....

Intermediate shafts, Material..... Identification Marks..... Tube shaft, Material..... Identification Marks.....

Screw shaft, Material.....Identification Marks.....Steam Pipes, Material.....Test pressure

Date of test..... Is an installation fitted for burning oil fuel.....

Is the flash point of the oil to be used over 150°F.....Have the requirements of the Rules for the use of oil as fuel been complied with

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo.....If so, have the requirements of the Rules been complied with

If the notation for ice strengthening is desired, state whether the requirements in this respect have been complied with.

Is this machinery a duplicate of a previous case.....If so, state name of vessel.

General Remarks. (State quality of workmanship, opinions as to class, &c.)

These machines have been constructed under the supervision of the U.S. Coast Guard and the American Bureau of Shipping. The workmanship is good and the materials considered sound. Examined under working conditions and found

Certificate (if required) to be sent to..

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	...	£	:	:	} When applied for.
Special	...	£	:	:	
Donkey Boiler Fee	...	£	:	:	} When received.
Travelling Expenses (if any)		£	:	:	

Edw. White

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned.

See minute
on fe. rht.

TUES. 20 DEC 1948

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Lloyd's Register
Foundation