

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

31 AUG 1948

Received at London Office.....

Date of writing Report... 25th August 1948. When handed in at Local Office... 26th August 1948. Port of... **TORQUAY.**

No. in Survey held at... **DARTMOUTH.** Date, First Survey... **9. 4. 48.** Last Survey... **20th July, 1948.**
Reg. Book. (Number of Visits... **Five**)

on the... **M.V. "POLURRIAN"** Tons { Gross... **328.43**
Net... **148.79**

Built at... **Dartmouth** By whom built... **Philip & Son Ltd.** Yard No... **1165** When built... **1948-7**

Owners... **Coastal Freighters Ltd.** Port belonging to... **Dartmouth**

Electrical Installation fitted by... **Philip & Son Ltd.** Contract No... **1165** When fitted... **1948**

Is vessel fitted for carrying Petroleum in bulk... **No.** Is vessel equipped with D.F... **No.** E.S.D... **No.** Gy.C.No... **No.** Sub.Sig... **No.**

Have plans been submitted and approved... **Yes** System of Distribution... **Constant Pressure Parallel** Voltage of supply for Lighting... **110**
Heating... **None** Power... **None** Direct or Alternating Current, Lighting... **D.C.** Power... **---** If Alternating Current state periodicity... **---** Prime Movers,
has the governing been tested and found as per Rule when full load is suddenly thrown on and off... **Yes** Are turbine emergency governors fitted with a
trip switch as per Rule... **---** Generators, are they compound wound... **Yes**, are they level compounded under working conditions... **Yes**,
if not compound wound state distance between generators... **---** and from switchboard... **---** Where more than one generator is fitted are they
arranged to run in parallel... **No**, are shunt field regulators provided... **Yes** Is the compound winding connected to the negative or positive pole
... **Negative** Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... **---** Have certificates of
test for machines under 100 kw. been supplied... **Yes** and the results found as per rule... **Yes** Are the lubricating arrangements and the construction
of the generators as per rule... **Yes** Position of Generators... **Engine Room - One port - One starboard**
... is the ventilation in way of generators satisfactory... **Yes** are they clear of inflammable material... **Yes**, if situated
near unprotected combustible material state distance from same horizontally... **---** and vertically... **---** are the generators protected from mechanical
injury and damage from water, steam and oil... **Yes**, are the bedplates and frames earthed... **Yes** and the prime movers and generators in metallic
contact... **Yes** Switchboards, where are main switchboards placed... **Engine Starboard side.**

are they in accessible positions, free from inflammable gases and acid fumes... **Yes**, are they protected from mechanical injury and damage from water, steam
and oil... **Yes**, if situated near unprotected combustible material state distance from same horizontally... **---** and vertically... **---**, what insulation
material is used for the panels... **Sindanyo**, if of synthetic insulating material is it an Approved Type... **Yes**, if of
semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... **---** Is the frame effectually earthed... **Yes**
Is the construction as per Rule... **Yes**, including accessibility of parts... **Yes**, absence of fuses on the back of the board... **Yes**, individual fuses
to pilot and earth lamps, voltmeters, etc.,... **Yes** locking of screws and nuts... **Yes**, labelling of apparatus and fuses... **Yes**, fuses on the "dead"
side of switches... **Yes** Description of Main Switchgear for each generator and arrangement of equaliser switches... **---**

D.P. Double throw Knife Switch for both generators and D.P. Fuses.

and for each outgoing circuit... **D.P. Knife switches and fuses.**

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... **Yes** Instruments on main switchboard... **One**
ammeters... **One** voltmeters... **---** synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the
equaliser connection... **---** Earth Testing, state means provided... **Earth lamps and switches.**
Switches, Circuit Breakers and Fuses, are they as per Rule... **Yes**, are the fuses an approved type... **Yes**, are all fuses labelled as
per Rule... **Yes** If circuit breakers are provided for the generators, at what overload current did they open when tested... **---**, are the reversed current
protection devices connected on the pole opposite to the equaliser connection... **---**, have they been tested under working conditions, and at what current
did they operate... **---** Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... **Yes**
Cables, are they insulated and protected as per the appropriate Tables of the Rules... **Yes**, if otherwise than as per Rule are they of an approved type... **---**,
state maximum fall of pressure between bus bars and any point under maximum load... **2 volts**, are the ends of all cables having a sectional area of 0.04
square inch and above provided with soldering sockets... **---** Are paper insulated and varnished cambric insulated cables sealed at the ends... **None**

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

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Lloyd's Register
Foundation

The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.
The foregoing is a correct description.

FOR PHILIP & SON, LIMITED,

J. Ashieip
MANAGING DIRECTOR

Electrical Engineers.

Date.....

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass..... 32 feet

The nearest cables to the compasses are as follows:—

A cable carrying 0.2 Ampères feet from standard compass to ~~from~~ steering compass.

A cable carrying 1.5 Ampères feet from standard compass 10 feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power Yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted Yes

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and Nil. degrees on any course in the case of the steering compass.

FOR PHILIP & SON, LIMITED,

J. Ashieip
MANAGING DIRECTOR

Builder's Signature.

Date.....

Is this installation a duplicate of a previous case..... No. If so, state name of vessel.....

Plans. Are approved plans forwarded herewith..... One only. If not, state date of approval..... 22.1.47. & 24.2.47.

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith..... Yes.

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.).....

This Electric installation has been installed under Special Survey, in accordance with Rules.
the approved plans and the Secretary's letter. The workmanship and materials are good and
when tried under full working conditions it was found satisfactory in every respect and is
such as can be accepted, in my opinion, for a classed vessel.

Note sent 16/9/48

Total Capacity of Generators..... 6 Kilowatts.

The amount of Fee ... £ 7 : 10 :

When applied for,
.....19.....

Travelling Expenses (if any) £ : :

When received,
.....19.....

D. J. P. Martin
Surveyor to Lloyd's Register of Shipping.

FRI 17 SEP 1948

Committee's Minute

Assigned

Sir F. E. M. M. M. M.