

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 15 SEP 1949

Date of writing Report 16<sup>th</sup> Aug. 1949 When handed in at Local Office 12. 9. 1949 Port of Glasgow

No. in Survey held at Dundee Date, First Survey 22<sup>nd</sup> June 1949 Last Survey 12<sup>th</sup> Aug. 1949  
Reg. Book. (No. of Visits 6)

on the S.S. "PINELAND" Tons { Gross 2459 Net 1403

Built at Dundee By whom built Caledon S & E. Co. Yard No. 472 When built 8/49

Owners The Cunie Line Ltd. Port belonging to Leith

Installation fitted by Selford, Grier, Mackay & Co. Ltd. When fitted 8/49

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

Plans, have they been submitted and approved Yes System of Distribution Two cond. insul. Voltage of Lighting 220

Heating 220 Power 220 D.C. or A.C., Lighting Yes Power Yes If A.C. state frequency Yes

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted with a trip switch Yes Generators, are they compound wound Yes, and level compounded under working conditions Yes

if not compound wound state distance between generators Yes and from switchboard Yes Are the generators arranged to run in parallel Yes, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole

engine Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Yes Have certificates of test for machines under 100 kw. been supplied Yes and the results found as per Rule Yes

Position of Generators Engine room bottom platform, starboard side

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and damage from water, steam and oil Yes Switchboards, where are main switchboards placed

Immediately aft of generating sets.

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water, steam and oil Yes, what insulation is used for the panels Enamelled Sinteroxy, 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 Yes Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear

Double pole, air break, free handle circuit Breaker with interlocked equaliser switch.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole switches & fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 2

ammeters 2 voltmeters Yes synchronising devices. For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided

Lamps permanently connected

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes

make of fuses Bussell & Munro, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 170%, and at what current do the reversed current protective devices operate 20%

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule Yes

Cables, are they insulated and protected as per Rule Yes, if otherwise than as per Rule are they of an Approved Type Yes

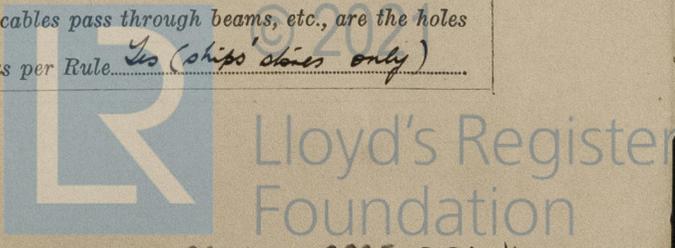
state maximum fall of pressure between bus bars and any point under maximum load 3.2 volts, are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets Yes Are all paper insulated and varnished cambric insulated cables sealed at the ends Yes

Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates Yes, if so, are they adequately protected Yes

Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit Yes

or of the "HR" type Yes State how the cables are supported or protected Clipped to solid or perforated steel tray, structural steel work or woodwork & protected as found necessary

Are all lead sheaths, armoring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes effectively bushed Yes Refrigerated chambers, are the cables and fittings as per Rule Yes (ships' stores only)





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. TELFORD, GRIER, MACKAY & CO, LTD,

*G.H. Ferguson* DIRECTOR

Electrical Contractors.

Date 17<sup>th</sup> Aug 49.

COMPASSES.

FOR AND ON BEHALF OF THE CALEDON SHIPBUILDING & ENGINEERING CO. LTD.

Have the compasses been adjusted under working conditions.

Yes

*Bob Park*

Builder's Signature.

Date 19<sup>th</sup> Aug 49.

Have the foregoing descriptions and schedules been verified and found correct. Yes

Is this installation a duplicate of a previous case. Yes If so, state name of vessel SS "WOODLAND"

Plans. Are approved plans forwarded herewith. No If not, state date of approval 5/11/48

Certificates. Are certificates of test for motors engaged on essential sea 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 installation has been fitted under special survey, tested under working conditions & found satisfactory. The materials & workmanship are good.*

*Note sent 10/10/49*

Total Capacity of Generators 50<sup>✓</sup> Kilowatts.

The amount of Fee ... £ 47 : 10

When applied for, AT DUNDEE

Travelling Expenses (if any) £

When received, 19

*S. B. Johnson*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

14 SEP 1949

Assigned SEE ACCOMPANYING MACHINERY REPORT.

2nd 9.48—Transfer. (MADE AND PRINTED IN ENGLAND.)  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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