

RECEIVED

20 JAN 1944 Rpt. 13.

No. 9404

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 6<sup>th</sup> Jan 44 When handed in at Local Office 14<sup>th</sup> JAN. 1944 Port of Dundee Received at London Office 20 JAN 1944

No. in Survey held at Dundee Date, First Survey 8 Dec 1943 Last Survey 27<sup>th</sup> Dec 1943  
Reg. Book. (Number of Visits 3)

37396 on the S.S. EMPIRE "CANYON" Tons { Gross 4058  
Net 4841

Built at Dundee By whom built Caledon S. B. & Co. Ltd Yard No. 408 When built 1943

Owners Ministry of War Transport Port belonging to \_\_\_\_\_

Electrical Installation fitted by Mackay & Co. 13, Bury St. London EC3 Contract No. 408 When fitted 1943

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

Have plans been submitted and approved Yes System of Distribution two wire Voltage of supply for Lighting 110

Heating \_\_\_\_\_ Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. 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 in engine room

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 near generators

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. Switch and Fuses.

and for each outgoing circuit D. P. Switch and Fuses.

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

ammeters 2 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.

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

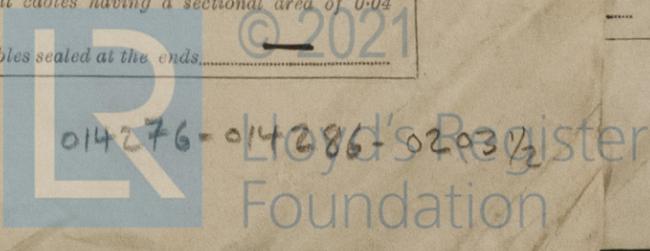
protection devices connected on the pole opposite to the equaliser connection \_\_\_\_\_, have they been tested under working conditions, and at what current

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 Yes,

state maximum fall of pressure between bus bars and any point under maximum load 3 volts, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends \_\_\_\_\_





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.

Mackay Co. (J. Mackay) Electrical Engineers. Date Jan 10<sup>th</sup> 1944

COMPASSES.

Minimum distance between electric generators or motors and standard compass 24 feet  
 Minimum distance between electric generators or motors and steering compass 22 feet

The nearest cables to the compasses are as follows:—

A cable carrying .1 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 9 Ampères 9 feet from standard compass 5 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 nil degrees on any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

J. H. Juster

Builder's Signature. Date

DIRECTOR,

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

Plans. Are approved plans forwarded herewith If not, state date of approval 4-3-43

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.)

The electrical equipment of this vessel has been fitted on board under special survey in accordance with the requirements of the M.O.W.T. tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted  
 J. E.  
 2/11/44

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 22 : 10 :  
 M.O.W.T. SPEC. 5 : 12 : 6

When applied for, 31<sup>st</sup> Dec. 1943.

J. C. Wright & G. E. Murdoch  
 Surveyor to Lloyd's Register of Shipping.

Travelling Expenses (if any) £ : :  
 When received. 19

Committee's Minute GLASGOW 18 JAN 1944

Assigned See J. E. report.

5m. 4.30.—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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