

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

28 MAY 1942

Received at London Office

Date of writing Report.....19..... When handed in at Local Office.....16/5/42..... Port of.....Newcastle.....

No. in Survey held at.....Walker on Tyne..... Date, First Survey.....10 March..... Last Survey.....8 May 1942.....  
Reg. Book..... (Number of Visits.....9.....)

diam 35949 on the.....CONCONIAN..... Tons {Gross..6082  
3452  
Net..2630

es and Built at.....Walker on Tyne..... By whom built.....Swan Hunter & Wigham Richardson No. 1708..... When built.....1942

Owners.....The United Africa Co Ltd..... Port belonging to.....Liverpool

Electrical Installation fitted by.....Cambell & Asherwood Ltd..... Contract No..... When fitted.....1942

Is vessel fitted for carrying Petroleum in bulk.....Yes..... 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

shut Heating.....Yes..... Power.....Yes..... Direct or Alternating Current, Lighting.....Direct..... Power.....Direct..... 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 not received..... and the results found as per rule.....Yes..... Are the lubricating arrangements and the construction

Manufact of the generators as per rule.....Yes..... Position of Generators.....On platform aft of main engine.....

10/4 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.....On generator platform port 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..... distance from same horizontally..... and vertically....., what insulation

material is used for the panels.....Ebony Sindango....., 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

the construction as per Rule.....Yes....., including accessibility of parts.....Yes....., absence of fuses on the back of the board.....Yes....., individual fuses

o pilot and earth lamp, 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.....Double pole

circuit breakers with overload, no volt, & reverse current trips

and for each outgoing circuit.....Double pole quick break knife switches, double throw

and double pole fuses

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

mmeters.....2..... voltmeters..... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection.....Yes..... Earth Testing, state means provided.....Earth lamp coupled to earth via switches.....and fuses.

witches, Circuit Breakers and Fuses, are they as per Rule.....Yes....., are the fuses an approved type.....Yes....., are all fuses labelled as

er Rule.....Yes..... If circuit breakers are provided for the generators, at what overload current did they open when tested.....520A....., are the reversed current

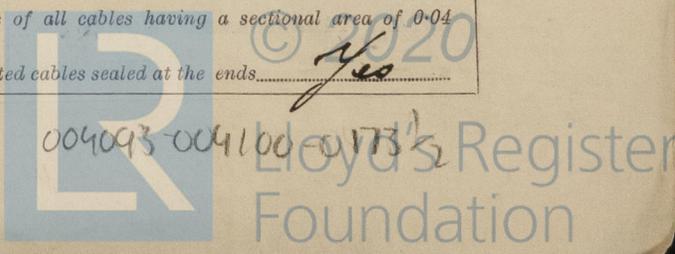
rotection devices connected on the pole opposite to the equaliser connection.....Yes....., have they been tested under working conditions, and at what current

id they operate.....10A..... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule.....Yes

of Ship ables, 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.....

ate maximum fall of pressure between bus bars and any point under maximum load..... Less than....., are the ends of all cables having a sectional area of 0.04

quare inch and above provided with soldering sockets.....Yes..... Are paper insulated and varnished cambric insulated cables sealed at the ends.....Yes





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.

CAMPBELL & ISHERWOOD, LTD.

*Thompson*

Electrical Engineers.

Date 13<sup>th</sup> MAY 1942

COMPASSES.

Minimum distance between electric generators or motors and standard compass 225'-0"

Minimum distance between electric generators or motors and steering compass 236'-0"

The nearest cables to the compasses are as follows:—

A cable carrying 14 Ampères inside feet from standard compass — feet from steering compass.

A cable carrying 14 Ampères — feet from standard compass inside 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

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

SWAN, HORTON & CO., LTD.

*G. J. Dwyer*

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 No If not, state date of approval 17/1/42

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith No

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 installed in accordance with the approved plans. The materials used are of good quality and the workmanship is good. On completion the equipment was run under working conditions with satisfactory results and the protective devices of the generator circuit breakers were operated and adjusted. The insulation resistance of all circuits was measured and found satisfactory. This equipment is in my opinion suitable for a classed vessel.*

*Noted  
L. J.  
1/6/42*

Total Capacity of Generators 50 Kilowatts.

The amount of Fee £ 27 : 10 : { When applied for 12 MAY 1942  
 Travelling Expenses (if any) £ : : { When received

*W. E. Connell*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 16 JUN 1942

Assigned See Nav. 2E 1004/6

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.)