

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

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 & Isherwood 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.....

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..... 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.....On platform aft of main engine.....

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.....

qualiser 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.....320A....., 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.....

EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...								
GENERATOR ...								

LIGHTING AND HEATING, ETC., CABLES.							
WIRELESS	1	7/064	35	46	390'	V.I.R	L.C.A.B
NAVIGATION LIGHTS (Alternative circuit)	1	7/036	5	24	63'	V.I.R	L.C
LIGHTING AND HEATING							
Life accommodation lighting	1	7/036	15	24	54'	V.I.R	L.C.A.B
"	1	7/036	15	24	15'	"	"
"	1	7/036	6.5	24	96'	"	"
Cargo lights	1	7/064	7.5	31	38'	"	L.S.A.B
Midships lower deck	1	7/036	8.5	24	62'	"	L.C
"	1	7/036	7.5	24	12'	"	L.C
"	1	7/036	9.5	24	144'	"	L.C.A.B
" Bridge deck	1	7/036	12	24	9'	"	L.C
"	1	7/036	13	24	12'	"	L.C
"	1	7/036	8	24	24'	"	L.C
" Hot press	1	7/064	31	46	24	"	L.C

[illegible]

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.

FEARNS

Thorpe

Electrical Engineers.

Date 13TH 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 1/2 degrees on Every course in the case of the

standard compass, and 1/2 degrees on Every course in the case of the steering compass.

SWAN, HORTON, & CO., LTD.

E. 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

1/6/42

Total Capacity of Generators 50 Kilowatts.

The amount of Fee £ 27: 10: When applied for 12th MAY 1942

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

Committee's Minute TUE 16 JUN 1942

Assigned See Nuc. Z.E 1004/6

W. E. Council

Surveyor to Lloyd's Register of Shipping.