

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

26 APR 1945

Received at London Office.....

Date of writing Report... 20th April 1945 When handed in at Local Office... 25 APR 1945 Port of... LondonNo. in Survey held at... London Date, First Survey... 3rd April Last Survey... 22nd April 1945  
Reg. Book... Suppt. and Walsand (Number of Visits... 8.....)89473 on the... S.S. "EMPIRE NAIROBI" Tons {Gross... 7395  
Net... 5083Built at... London By whom built... Shott Bros., Ltd. Yard No. 484 When built... 1945Owners... Ministry of War Transport Port belonging to... LondonElectrical Installation fitted by... Campbell & Denwood, Ltd. Contract No. 484 When fitted... 1945Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. NoHave plans been submitted and approved... No System of Distribution... Two wire immersed Voltage of supply for Lighting... 110Heating... Power... 110 Direct or Alternating Current, Lighting... No Power... No 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... No Are turbine emergency governors fitted with atrip switch as per Rule... No Generators, are they compound wound... No, are they level compounded under working conditions... Noif not compound wound state distance between generators... No and from switchboard... No Where more than one generator is fitted are theyarranged to run in parallel... No, are shunt field regulators provided... No Is the compound winding connected to the negative or positive polenegative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... No Have certificates oftest for machines under 100 kw. been supplied... No and the results found as per rule... No Are the lubricating arrangements and the constructionof the generators as per rule... No Position of Generators... Engine room starboard side onraised stow, is the ventilation in way of generators satisfactory... No are they clear of inflammable material... No, if situatednear unprotected combustible material state distance from same horizontally... No and vertically... No, are the generators protected from mechanicalinjury and damage from water, steam and oil... No, are the bedplates and frames earthed... No and the prime movers and generators in metalliccontact... No Switchboards, where are main switchboards placed... Engine room starboard sideabove generating setsare they in accessible positions, free from inflammable gases and acid fumes... No, are they protected from mechanical injury and damage from water, steamand oil... No, if situated near unprotected combustible material state distance from same horizontally... No and vertically... No, what insulationmaterial is used for the panels... Every kind of, if of synthetic insulating material is it an Approved Type... No, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... No Is the frame effectually earthed... NoIs the construction as per Rule... No, including accessibility of parts... No, absence of fuses on the back of the board... No, individual fusesto pilot and earth lamps, voltmeters, etc... No locking of screws and nuts... No, labelling of apparatus and fuses... No, fuses on the "dead"side of switches... No Description of Main Switchgear for each generator and arrangement of equaliser switches... Double polequick break knife switch and double pole fuseand for each outgoing circuit... Double pole double throw quick break knife switchand double pole fuseAre compartments containing switchboards composed of fire-resisting material or lined as per Rule... No Instruments on main switchboard... Twoammeters... Two voltmeters... No synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection... No Earth Testing, state means provided... Flange coupled to E through fusesSwitches, Circuit Breakers and Fuses, are they as per Rule... No, are the fuses an approved type... No, are all fuses labelled asper Rule... No If circuit breakers are provided for the generators, at what overload current did they open when tested... No, are the reversed currentprotection devices connected on the pole opposite to the equaliser connection... No, have they been tested under working conditions, and at what currentdid they operate... No Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... NoCables, are they insulated and protected as per the appropriate Tables of the Rules... No, if otherwise than as per Rule are they of an approved type... Nostate maximum fall of pressure between bus bars and any point under maximum load... 26.6V., are the ends of all cables having a sectional area of 0.01square inch and above provided with soldering sockets... No Are paper insulated and varnished cambric insulated cables sealed at the ends... No



PARTICULARS OF GENERATING PLANT.

## GENERATOR CABLES.

### MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

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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.

CAMPBELL & ISHERWOOD LTD.

Thomas Needs

Electrical Engineers.

Date 21.4.45.

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 86 feet

Minimum distance between electric generators or motors and steering compass 80 feet

The nearest cables to the compasses are as follows:—

A cable carrying 0.144 Ampères on the feet from standard compass 7 feet from steering compass.

A cable carrying 0.144 Ampères 7 feet from standard compass on the 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 *1/2* degrees on *any* course in the case of the standard compass, and *1/2* degrees on *any* course in the case of the steering compass.

FOR SHORT BROTHERS, LIMITED.

Norman Staley

Builder's Signature.

Date 24.4.45.

SECRETARY

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 13/3/45

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 installed in accordance with the Rules and the workmanship is good.*

*On completion the equipment was run under working conditions with satisfactory results and the maintenance of all circuits was measured and found good. This equipment is in my opinion suitable for a steam vessel.*

*Noted*

*RM 10.5.45*

Total Capacity of Generators 30 Kilowatts.

The amount of Fee £ 28 : 2/6 :  
Travelling Expenses (if any) £ : :  
When applied for, 20.4.45  
When received, 19.

Sanison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FNL 18 MAY 1945

Assigned

See F.E. machy.sph