

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

30 OCT 1944

Date of writing Report.....19... When handed in at Local Office.....22.10.19... Port of NEWCASTLE-ON-TYNE

No. in Survey held at WILLINGTON QUAY. Date, First Survey (1944) Sept. 11 Last Survey Oct. 9th 1944
Reg. Book. (Number of Visits 5)

on the S.T. 'EMPIRE SUSAN' Tons { Gross 591.75
Net 65.98

Built at WILLINGTON QUAY By whom built CLELAND'S SUCCESSORS, LTD. Yard No. 71 When built 1944

Owners MINISTRY OF WAR TRANSPORT Port belonging to ...

Electrical Installation fitted by CAMPBELL & SHERWOOD LTD Contract No. 71 When fitted 1944

Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F. ... E.S.D. ... Gy.C. ... Sub.Sig. ...

Have plans been submitted and approved YES System of Distribution TWO WIRE INSULATED 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... and the results found as per rule... Are the lubricating arrangements and the construction

of the generators as per rule YES. Position of Generators ENGINE ROOM STBD. ON PLATFORM.

... 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 ENGINE ROOM STBD.

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 FRONY 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 DOUBLE POLE Q.B.

SWITCHES AND DOUBLE POLE FUSES.

and for each outgoing circuit DOUBLE POLE, DOUBLE THROW Q.B. SWITCHES AND DOUBLE POLE FUSES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES. 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 YES. Earth Testing, state means provided EARTH LAMPS CONNECTED TO E THROUGH SWITCHES AND FUSES

Switches, Circuit Breakers and Fuses, are they as per Rule YES are the fuses of 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 ... are the reversed current

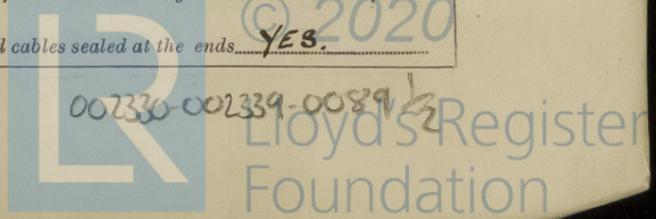
protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current

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...

state maximum fall of pressure between bus bars and any point under maximum load 6.4, 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 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 20-10-44

COMPASSES.

Minimum distance between electric generators or motors and standard compass 28 FEET.

Minimum distance between electric generators or motors and steering compass 20 FEET.

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 YES ✓

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.

FOR AND ON BEHALF OF
EMPIRE JULIA (SUCESSORS) LIMITED
D. W. Builder's Signature. Date 31.10.44
 DIRECTOR

Is this installation a duplicate of a previous case YES. If so, state name of vessel EMPIRE JULIA.

Plans. Are approved plans forwarded herewith If not, state date of approval

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 conformity with the Society's Rules and Regulations, and the arrangements are in accordance with, or equivalent to those shown on the approved plans.

Materials used are of good quality and the workmanship is satisfactory.

On completion, the insulation resistance of all circuits was good, and the generators operated on load and Governor tests, with satisfactory results.

The equipment as installed, is, in my opinion, suitable for a classed vessel.

Thom
31.10.44

Total Capacity of Generators 17 Kilowatts.

The amount of Fee ... £ 16 : - :
 SPECIFICATION 4 : - :
 Travelling Expenses (if any) £ : :
 When applied for, 25 OCT 1944
 When received,

Admiral
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 3 NOV 1944
 Assigned see minute on
H. R. P.



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.)