

Rpt. 13.

No. 100938

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report.....19..... When handed in at Local Office.....12/1/1943..... Port of.....Newcastle-on-Tyne.....

No. in Survey held at.....Newcastle..... Date, First Survey.....22 Oct 1942..... Last Survey.....10 Dec 1942.....
Reg. Book. SUPPT (Number of Vents.....4.....)83722 on the.....BRITISH GRATITUDE..... Tons {Gross.....8463
Net.....4914

Built at.....Newcastle..... By whom built.....J. W. Hunt & W. H. Richardson Yard No.....1643..... When built.....1942.....

Owners.....British Tanker Co Ltd..... Port belonging to.....London.....

Electrical Installation fitted by.....Campbell and Isherwood..... Contract No.....1643..... 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..... 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.....Engine room on gallery starboard side.....

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 on gallery starboard side.....

J. W. Hunt & W. H. Richardson

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.....Ebonite....., 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 circuit breakers with 1/2 and two-volt release

and for each outgoing circuit.....Double pole quick break trip switches, change over, 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..... Earth Testing, state means provided.....E. lamps coupled to E. through switches and fuses

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.....300A....., 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.....4.4 V....., are the ends of all cables having a sectional area of 0.01

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

and found satisfactory.....~~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.

PER Thos. Hume Electrical Engineers.

Date 4th Jan 1943

COMPASSES.

Minimum distance between electric generators or motors and standard compass 210 Feet

Minimum distance between electric generators or motors and steering compass 200 Feet

The nearest cables to the compasses are as follows:—

A cable carrying 0/4 Ampères inside feet from standard compass inside feet from steering compass.

A cable carrying 1/4 Ampères inside 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

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 For degrees on every course in the case of the steering compass.

SWAN, HUNTER, & WIGGINS, LTD.

Wm. Buckie per pro S.H. Builder's Signature.

Date 8th January 1943

Is this installation a duplicate of a previous case Yes If so, state name of vessel BRITISH CHARACTER.

Plans. Are approved plans forwarded herewith No. If not, state date of approval 30/6/41 9/1/41

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The Electrical Installation of this vessel was installed under special survey.

The workmanship and materials used were good.

The governing and regulation of the Generators were tested

Overload trips of the circuit breakers were tested and the

Insulation resistance measured and found satisfactory.

In my opinion the Installation of this vessel is suitable for classification

Noted
L.P.
14/1/43.

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ 28 : 10 : 31-12-1942

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

A. R. Diment
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 19 JAN 1943

Assigned See Nwc. 28. 100938



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Foundation