

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

13 SEP 1945

Date of writing Report.....19..... When handed in at Local Office.....3/9/45..... Port of.....NEWCASTLE-ON-TYNE.....

No. in Survey held at.....HIBBURN-ON-TYNE..... Date, First Survey.....(1945) May 1st..... Last Survey.....Aug 24th 1945.....
Reg. Book..... (Number of Visits.....4.....)

on the.....M.V. "EMPIRE NEPTUNE"..... Tons { Gross.....8285
Net.....4755

Built at.....HEBBURN-ON-TYNE..... By whom built.....HAWTHORN LESLIE & CO. LTD..... Yard No.....666..... When built.....1945.....

Owners.....HIS MAJESTY, REPRESENTED BY THE MINISTER OF WAR TRANSPORT..... Port belonging to.....SOUTH SHIELDS.....

Electrical Installation fitted by.....HAWTHORN, LESLIE & CO. LTD..... Contract No.....666..... When fitted.....1945.....

Is vessel fitted for carrying Petroleum in bulk.....YES..... Is vessel equipped with D.F.....YES..... E.S.D.....YES..... Gy.C.....YES..... 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 of.....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, 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, STARBOARD 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 state distance from same horizontally.....-..... and vertically.....-..... what insulation

material is used for the panels.....'INTEROMIT'....., 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 CHANGE-OVER KNIFE SWITCH & DOUBLE POLE FUSES FOR NO. 1 GENERATOR.....

DOUBLE POLE KNIFE SWITCH & DOUBLE POLE FUSES FOR NO. 2 GENERATOR.....

and for each outgoing circuit.....DOUBLE POLE CHANGE-OVER SWITCH & 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.....EARTH LAMPS CONNECTED 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.....-..... 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.....-..... 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.....

4-4 LIGHTING
2-6-6V. POWER.

Are paper insulated, and varnished cambric insulated cables sealed at the ends.....YES.....

[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.

FOR R. & W. HAWTHORN, LESLIE & CO. LIMITED

C. Stephenson

Electrical Engineers.

Date 28/8/45

COMPASSES.

Minimum distance between electric generators or motors and standard compass 17 FEET.

Minimum distance between electric generators or motors and steering compass 15 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 R. & W. HAWTHORN, LESLIE & CO. LIMITED

Builder's Signature.

Date 28/8/45

Is this installation a duplicate of a previous case. No If so, state name of vessel —

Plans. Are approved plans forwarded herewith. — If not, state date of approval 20-2-46.

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

Equipment of this vessel has been installed in conformity with the Society 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 the installation was good and the generators operated under normal working conditions with satisfactory results.

The Equipment as installed is, in my opinion, suitable for a Class Vessel.

Total Capacity of Generators 60 Kilowatts.

Liverpool, E.

The amount of Fee £ 35 : 17/6 :

When applied for,

11 SEP 1945

14 AUG 1945

When received,

31 AUG 1945

Travelling Expenses (if any) £ :

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

Committee's Minute 5 OCT 1945

Assigned

See F.B. Machy. Rpt.



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Lloyd's Register
Foundation