

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

11 MAY 1942

Received at London Office.....

Date of writing Report... 4. 4. 1942. When handed in at Local Office... 7 MAY 1942. Port of... HULL

No. in Survey held at... Thorne Date, First Survey... 17. 3. 42. Last Survey... 31. 3. 1942.
Reg. Book. (Number of Visits... 3.)on the... **EMPIRE SPRUCE** Tons {Gross... 129
Net... 116

Built at... Thorne By whom built... R. Duxell & Co. Yard No... 364 When built... 1942. 3

Owners... The Managers of War Transport Port belonging to...

Electrical Installation fitted by... Wm. Broadley & Son Ltd. Contract No... When fitted... do

Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F... E.S.D... Gy.C... Sub.Sig...

Have plans been submitted and approved... Yes System of Distribution... Parallel. Voltage of supply for Lighting... 110

Heating... Power... Direct or Alternating Current, Lighting... DC Power... 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... Yes, are shunt field regulators provided... Yes. Is the compound winding connected to the negative or positive pole

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. 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. Adjacent to Generator.

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... Indolene. 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...

DP Switches & fuses.

and for each outgoing circuit... SP. or DP Switches & DP. fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... One

ammeters... One 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 & switches

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... Yes

state maximum fall of pressure between bus bars and any point under maximum load... 2 vols. are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... No. Are paper insulated and varnished cambric insulated cables sealed at the ends...

of Shippi

and found satisfactory. *Yes*

005756-00578-6057²/₂

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.

WM BROADY & SON LTD.
13, BRIDGE STREET,
HULL.

Electrical Engineers.

Date 5th May 1942

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... ✓

Minimum distance between electric generators or motors and steering compass..... 42 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 6.25 Ampères feet from standard compass 6 ft. feet from steering compass.

A cable carrying 4 Ampères feet from standard compass 6 ft. 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 for ✓

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted for ✓

The maximum deviation due to electric currents was found to be 0.1 degrees on course in the case of the standard compass, and 0.1 degrees on course in the case of the steering compass.

Builder's Signature.

Date.

Is this installation a duplicate of a previous case..... Eps ✓ If so, state name of vessel EMPIRE MAPLE

Plans. Are approved plans forwarded herewith..... No If not, state date of approval 23-7-41

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.)

This electrical installation has been fitted on board in accordance with the approved plans, the Rules, & the Specifications.
The workmanship & materials are good & when tried under working conditions & subjected to the tests prescribed in the Rules it was found satisfactory in every respect.

Noted

L.H.

12/5/42

Total Capacity of Generators 3 Kilowatts.

The amount of Fee ... £ 3 : 0 : 15

+ 25% for Specification

Travelling Expenses (if any) £ : :

When applied for,

2 MAY 1942

When received,

.....10.....

Committee's Minute

FRI 15 MAY 1942

Assigned

See Sub 26 51596



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