

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) -3 DEC 1941

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of Hull

No. in Survey held at Thorne & Hull Date, First Survey 4.9.41 Last Survey 15.11.41
 Reg. Book. (Number of Visits.....)

on the S. de Vug. **EMPIRE CEDAR.** Tons { Gross 129
 Net 112

Built at Thorne By whom built R. Dunlop & Co. Yard No. 360 When built 1941-11

Owners Ministry of Shipping Port belonging to.....

Electrical Installation fitted by Humbel Electrical Engineering Co. Ltd Contract No. ✓ When fitted 1941-11

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 Parallel Constant pressure 2 wire Voltage of supply for Lighting 110

Heating ✓ Power ✓ Direct or Alternating Current, Lighting D.C. Power ✓ If Alternating Current state frequency ✓ Prime Movers,

has the governing been tested and found efficient when the whole 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 ✓, 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 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 Indanite, 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.....

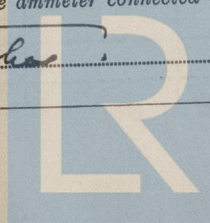
D.P. Switches & fuses

and for each outgoing circuit SP or D.P. Switches & D.P. 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



and where are the controlling switches fitted..... Yes....., are all fittings suitably ventilated..... Yes.....
are all fittings and accessories constructed and installed as per Rule..... Yes..... Searchlight Lamps, No. of..... One....., whether fixed or portable.....
....., are their fittings as per Rule..... Yes..... Heating and Cooking, is the general construction as per Rule..... Yes.....
are the frames effectually earthed..... Yes....., are heaters in the accommodation of the convection type..... Yes..... Motors, are all motors constructed and
installed as per Rule..... Yes..... and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,
steam and oil..... Yes....., if situated near unprotected combustible material state minimum distance from same horizontally..... Yes..... and vertically..... Yes.....
Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... Yes..... Have certificates of test for motors under
100 BHP intended for essential services been supplied and the results found as per Rule..... Yes..... Control Gear and Resistances, are they constructed and
fitted as per Rule..... Yes..... Lightning Conductors, where required are they fitted as per Rule..... Yes..... Ships carrying Oil having a Flash Point
less than 150° F. Have all the special requirements of the Rules for such ships been complied with..... Yes....., are all fuses of the cartridge type..... Yes.....
are they of an approved type..... Yes..... If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof
type..... Yes..... Spare Gear, if the vessel is for open sea service have spares been provided as per Rule..... Yes....., are they suitably stored in dry
situations..... Yes..... Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory..... Yes.....

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	One	3	110	27	500	Steam Engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.	(load plus return feet).		
MAIN GENERATOR	50	One	7/044	27	31	✓ 19	V.I.R.	L.C. + Guard
" " EQUALISER								
.....								
.....								
.....								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible][illegible][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.

W.E. Plummer

Electrical Engineers.

Date

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 0.25 Ampères feet from standard compass 76 feet from steering compass.

A cable carrying 4 Ampères feet from standard compass 6 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 162 degrees on course in the case of the standard compass, and any degrees on any course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case

Yes

If so, state name of vessel

EMPIRE MAPLE

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 & tested subjected to the tests prescribed by the Rules it was found satisfactory in every respect.

Noted
8/12/41

Total Capacity of Generators 3 Kilowatts.

The amount of Fee £ 3 : 0 :
+ 25% for Specimen 15/-
Travelling Expenses (if any) £ : :
When applied for, 1.12.41
When received, 19

Richard L. Plummer
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

TUE 9 DEC 1941

See Incl. 26: 5/4/11