

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) - 6 AUG 1941

Received at London Office

Date of writing Report 29/7/1941 When handed in at Local Office 19 Port of MANCHESTER

Survey held at MANCHESTER Date, First Survey 16/4/41 Last Survey 2/7/1941
Reg. Book. (Number of Visits 9)

on the SS. MODLIN ex. WILJA Tons { Gross
Net

built at FLENSBURG By whom built FLENSBURGER SCHIFFBAUWERKE Yard No. - When built 1906

owners POLISH GOVERNMENT Port belonging to -

Electric Light Installation fitted by ✓ Contract No. ✓ When fitted 1906

the Vessel fitted for carrying Petroleum in bulk No.

System of Distribution Two wire

Pressure of supply for Lighting 110 volts, Heating - volts, Power - volts.

Direct or Alternating Current, Lighting Direct Power -

Alternating current system, state frequency of periods per second -

the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes.

Generators, do they comply with the requirements regarding temperature rise Yes under working load., are they compound wound Yes.

they over compounded 5 per cent. Yes., if not compound wound state distance between each generator ✓

Are more than one generator is fitted are they arranged to run in parallel Yes., is an adjustable regulating resistance fitted in

with each shunt field Yes. Have certificates of test results for machines under 100 kw. been submitted and

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing -

certificates for generators under 100 kw. been supplied and approved -

All terminals accessible, clearly marked, and furnished with sockets Yes., are they so spaced or shielded that they cannot be accidentally earthed,

circuited, or touched Yes. Are the lubricating arrangements of the generators as per Rule Yes.

Position of Generators Aft end of engine room one port & one starboard., is the ventilation

of the generators satisfactory Yes. are they clear of all inflammable material Yes. if situated near unprotected

work or other combustible material, state distance of same horizontally from or vertically above the generators - and ✓

generators protected from mechanical injury and damage from water, steam or oil Yes., are their axes of rotation fore and aft Aftwards

thing, are the bedplates and frames of the generating plant efficiently earthed Yes. are the prime movers and their respective generators

metallic contact Yes. Main Switch Boards, where placed Aft end of engine room over No. 2 generator.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard ✓

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes., are they protected from mechanical

and damage from water, steam or oil Yes., if situated near unprotected woodwork or other combustible material, state distance of same

horizontally from or vertically above the switchboards ✓ and ✓, are they constructed wholly of durable, non-ignitable non-absorbent

materials Marble., is all insulation of high dielectric strength and of permanently high insulation resistance No.

of an approved type ✓, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other

hygroscopic insulating material, and the slab similarly insulated from its framework No., is the non-hygroscopic insulating material of an approved

type ✓, and is the frame effectively earthed Yes. Are the fittings as per Rule regarding: - spacing or shielding of live parts

Yes., accessibility of all parts Yes., absence of fuses on back of board Yes., temperature rise of

bus bars Yes., individual fuses to voltmeter, pilot or earth lamp for Voltmeters only., are moving parts of switches alive in the

position No. are all screws and nuts securing connections effectively locked Yes. are any fuses fitted on the live side of

switches No. Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

Circuit breaker D.P. line & S.P. equalized switches for each dynamo. D.P. switch & fuses for each outgoing circuit.

Are cupboards or compartments containing switchboards composed of

resisting material or lined with approved material Yes. Instruments on main switchboard 2 ammeters 2

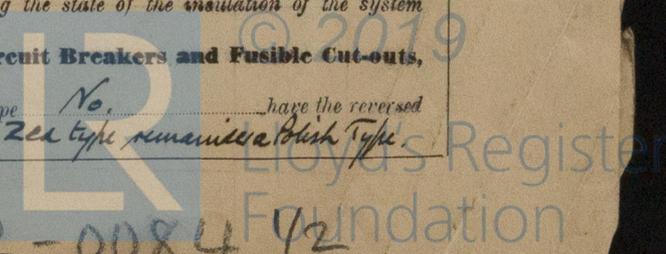
Are there any synchronising devices for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection

Yes. Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

Earth lamps. Switches, Circuit Breakers and Fusible Cut-outs,

do they comply with the requirements of the Rules No but considered efficient. are the fusible cutouts of an approved type No. have the reversed

W192-0084 42



The Electrical Equipment is installed in accordance with the approved plans.
 All Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
 The foregoing is a correct description.

Electrical Engineers. Date _____

COMPASSES.

Minimum distance between electric generators or motors and standard compass *92 ft. approx.*

Minimum distance between electric generators or motors and steering compass *85 ft. approx.*

The nearest cables to the compasses are as follows:—

A cable carrying *2.2* Ampères *8* feet from standard compass *in* feet from steering compass.

A cable carrying *2.2* Ampères *in* feet from standard compass *8* feet from steering compass.

A cable carrying *2.8* Ampères *14* feet from standard compass *10* 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 _____ degrees on _____ course in the case of the standard

compass, and _____ degrees on _____ course in the case of the steering compass.

Builder's Signature. Date _____

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

General Remarks (State quality of workmanship, opinions as to class, &c.) *The Electric Light installation has been examined, tested and tried under working conditions and has been found satisfactory.*

Total Capacity of Generators *18.2* Kilowatts.

The amount of Fee £	:	:	When applied for.
<i>See M/C letter of 5/9/41.</i>	:	: 19.....
Travelling Expenses (if any) £	:	:	When received.
	:	: 19.....

R. C. Clayton
 Surveyor to Lloyd's Register of Shipping.

TUE. 12 AUG 1941

Committee's Minute

Assigned *See Arch. Rpt. 10607*

See Arch. 10607
2/11/41

201.12.36.—Transfer. The Surveyors are requested not to write on or below the space for Committee's Minute.)

LLOYD'S REGISTER OF SHIPPING.