

Rpt. 13.

No. 60130

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

AUG 31 1938

Date of writing Report 22-8 1938 When handed in at Local Office 10 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 22-8 1938
 Reg. Book. on the non propelling Barge "ORDOLINA" (Number of Visits.....)
 Built at Glasgow By whom built Blythwood S. B. Co Yard No. 56 When built 1938
 Owners Companhia de Navegacao Shell Mex Ltd Port belonging to Rio de Janeiro
 Electric Light Installation fitted by The Sunderland Forge, Eng. Co. Ltd. Contract No. 56 When fitted 1938
 Is the Vessel fitted for carrying Petroleum in bulk barge for carrying oil fuel in bulk. F.P. above 150°F. For Auston Service.

System of Distribution two wire ✓

Pressure of supply for Lighting 32 volts, Heating — volts, Power 32. volts.

Direct or Alternating Current, Lighting direct ✓ Power direct. ✓

If alternating current system, state frequency of periods per second —

Has 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 ✓, are they compound wound no, shunt wound for battery charging.
are they over compounded 5 per cent. —, if not compound wound state distance between each generator —

Where more than one generator is fitted are they arranged to run in parallel —, is an adjustable regulating resistance fitted in series with each shunt field yes ✓
approved yes ✓ Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing —

Are all terminals accessible, clearly marked, and furnished with sockets yes ✓, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yes ✓ Are the lubricating arrangements of the generators as per Rule yes ✓

Position of Generators in pump room ✓, is the ventilation in way of the generators satisfactory yes ✓ are they clear of all inflammable material yes ✓ if situated near unprotected
woodwork or other combustible material, state distance of same horizontally from or vertically above the generators — and —

are the generators protected from mechanical injury and damage from water, steam or oil yes ✓, are their axes of rotation fore and aft yes ✓

Earthing, are the bedplates and frames of the generating plant efficiently earthed yes ✓ are the prime movers and their respective generators in metallic contact yes ✓

Main Switch Boards, where placed near generator ✓
If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse 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 injury 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 yes ✓, is all insulation of high dielectric strength and of permanently high insulation resistance yes ✓

is it of an approved type yes ✓, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework sindampo ✓, is the non-hygroscopic insulating material of an approved type yes ✓, 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 omnibus bars yes ✓, individual fuses to voltmeter, pilot or earth lamp yes ✓, are moving parts of switches alive in the "off" 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 D.P. switch and fuses for generator. D.P. switch and fuses for battery. Each outgoing circuit controlled by D.P. switch & fuses.

Are turbine driven generators fitted with emergency trip switch as per rule — Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material — Instruments on main switchboard 2 ammeters 1 voltmeters — synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection —

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 these comply with the requirements of the Rules yes ✓ are the fusible cutouts of an approved type yes ✓ have the reversed —

All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

P. Pro. THE SUNDERLAND FORGE & ENG. CO. LTD. Electrical Engineers. Date 26/8/38.

J.C. Shaub

COMPASSES.

Distance between electric generators or motors and standard compass

no compasses fitted.

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

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

BLYTHSWOOD SHIPBUILDING CO. LTD.

John Stewart Secretary

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, etc.)
The electrical equipment of this vessel has been fitted on board under special survey, tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted
R.J.
21/8/38

R.S.
29/8/38

Total Capacity of Generators 2 Kilowatts.

The amount of Fee ... £ 3 : — : 3.0 AUG 1938

Travelling Expenses (if any) £ — : — : 20/9/38

Committee's Minute GLASGOW 10 AUG 1938

Assigned SEE ACCOMPANYING MACHINERY REPORT.

R.J. Murchison
Surveyor to Lloyd's Register of Shipping.

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



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