

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

25 OCT 1939

Received at London Office

Date of writing Report 11th Oct, 1939 When handed in at Local Office 2 OCT 1939 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey 3rd Aug Last Survey 10th Oct, 1939
Reg. Book. Suppt. (Number of Visits 8)39363 on the S.S. "HERMISTON" Tons { Gross 481.3
Net 276.5

Built at Sunderland By whom built. Shott Bros. Ltd. Yard No. 457 When built 1939

Owners R. Chapman & Son Port belonging to Newcastle

Electrical Installation fitted by The Sunderland Eng. Co. Ltd. Contract No. 457 When fitted 1939

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

Have plans been submitted and approved Yes System of Distribution Double wire Voltage of supply for Lighting 110

Heating Power 110 Direct or Alternating Current, Lighting Yes Power Yes 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

Positive 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 aft

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 on

after bulkhead near 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 Slate, if of synthetic insulating material is it an Approved Type, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Yes 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

Knife switch and double pole fuse on generator main

and for each outgoing circuit Single pole knife switch and double pole fuse

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 E. lamps coupled to E. through 2000 ohm + fuses

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Foundation

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. Sunderland *For Lloyd's Register*
A. J. Gunn

Electrical Engineers.

Date *14-10-1939*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *98 feet*

Minimum distance between electric generators or motors and steering compass *94 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *1/4* Ampères *on the* ~~feet from~~ standard compass *8* feet from steering compass.

A cable carrying *1/4* Ampères *8* feet from standard compass *on the* ~~feet from~~ steering compass.

A cable carrying *1/4* Ampères *8* feet from standard compass *on the* ~~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 SHORT BROTHERS, LIMITED,

Henry S. Short

Director.

Builder's Signature.

Date *20th. Oct. 1939*

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

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 under special survey. The materials used and the workmanship are good. On completion the equipment was run under working conditions, the regulation, commencing and governing of the generating set was checked, the insulation resistance of all circuits was measured, all switches, fuses, cables and fittings were examined and the spare gear was verified. This equipment is in my opinion suitable for a classed vessel.

Noted
L. J.
27/10/39

Total Capacity of Generators *8* Kilowatts.

The amount of Fee ... £ *8* : - : *23 OCT 1939*

Travelling Expenses (if any) £ : : *28/10/39*

When applied for,

When received,

S. J. Harrison

Surveyor to Lloyd's Register of Shipping.

TUE 31 OCT 1939

Committee's Minute

Assigned

For K.E. machine r/t