

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

MAY 1948

Date of writing Report. 27-4-48 1948 When handed in at Local Office. 7th May 1948 Port of Sunderland.

No. in Survey held at Sunderland Date, First Survey 2.1.48 Last Survey 28.4.1948  
Reg. Book. M.V. "INTERPRETER" (Number of Visits.....25.....)on the Tons { Gross 6815  
Net 4027

Built at Sunderland By whom built Wm Doxford &amp; Sons Ltd Yard No. 447 When built 1948

Owners. Charterers S.S. Co. (T. &amp; J. Harman - Wm. &amp; J. Harman) Port belonging to Liverpool

Electrical Installation fitted by Campbell &amp; Islerwood Ltd Contract No. 747 When fitted 1948

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

Have plans been submitted and approved Yes System of Distribution Two-Wire insulated Voltage of supply for Lighting 220

Heating - Power 220 Direct or Alternating Current, Lighting Yes Power Yes 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

negative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Yes 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 6 from fore-hold, port side of main engines

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 on raised deck, port side of engine room.

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 Heavy "Sindamyo" 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 a triple-pole (one pole

for equaliser) air break circuit breaker fitted with 5/8" &amp; 1/8" current tripping devices.

and for each outgoing circuit a double-pole quick-break knife switch and double-pole fuse.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 3

ammeters 3 voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection Yes Earth Testing, state means provided 5 lamps connected to E through fuses &amp; fuses.

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 157, are the reversed current

protection devices connected on the pole opposite to the equaliser connection Yes, have they been tested under working conditions, and at what current

did they operate 40 A 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 -

state maximum fall of pressure between bus bars and any point under maximum load &gt; 13 lb, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends Yes.



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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.

CAMPBELL & ISHERWOOD, LTD.

*Thomas Mearns* Electrical Engineers.

Date *28th April 1948*

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass *48'*

Minimum distance between electric generators or motors and steering compass *50'*

The nearest cables to the compasses are as follows:—

A cable carrying *.15* Ampères *on the* ~~foot from~~ standard compass *10* feet from steering compass.

A cable carrying *.15* Ampères *10* feet from standard compass *on the* ~~foot 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 *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 *Wey* course in the case of the standard compass, and *Nil* degrees on *Wey* course in the case of the steering compass.

For and on behalf of  
WILLIAM DOXFORD & SONS LIMITED Builder's Signature. Date

*W. A. S. Lebbie* Managing Director

Is this installation a duplicate of a previous case *Yes*. If so, state name of vessel *M.V. "Herdman"*

Plans. Are approved plans forwarded herewith *No*. If not, state date of approval *3.7.46*

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith *Yes*.

General Remarks (State quality of workmanship, insulation tests, etc., have been made, opinions as to class, etc.)

The electrical equipment of this vessel has been installed under special survey in accordance with the approved plans and the "Rules for Electrical Equipment".  
The materials and workmanship are good: Upon completion trials of the equipment were carried out with satisfactory results and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Noted  
*S*  
18.5.48

Total Capacity of Generators *(3x150) 450* Kilowatts.

The amount of Fee *£101.5.0* { 81 : 0 : 0 SLD MAY 1.0.1948  
20 : 5 : 0 LND

Travelling Expenses (if any) £ : : When received. 19

Committee's Minute *FRI. 21 MAY 1948*

Assigned *For minute see J.E. R.P.C.*

*S. A. Mearns*  
Surveyor to Lloyd's Register of Shipping.



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