

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report.....19.5.1960 When handed in at Local Office.....19.5.1960 Port of.....LONDON

No. in Survey held at.....Dartford Date, First Survey.....3.4.59 Last Survey.....28.4.1960
Reg. Book. (Number of Visits.....10)

on the.....M.V. "CHARMO" Tons { Gross.....
Net.....

Built at.....Dartford Kent. By whom built.....Charrington Gardner Locket (London) Ltd. Yard No.....148 When built.....1959

Owners.....Charrington Gardner Locket (London) Ltd. Port belonging to.....

Electrical Installation fitted by.....Jarvis Rowell & Co. Ltd. Contract No.....12012 When fitted.....1959

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

Have plans been submitted and approved.....Yes System of Distribution.....Direct Current Voltage of supply for Lighting.....110DC

Heating.....Power.....110DC Direct or Alternating Current, Lighting.....DC Power.....DC 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.....No, 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.....Main-Vee belt to Stbd. Eng.:- Aux. Direct coupled to

Aux. Eng. (Stbd. side), is the ventilation in way of generators satisfactory.....Yes, are they clear of inflammable material....., 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 After Starboard Side.

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.....Sheet steel Panel (with standard insulated components), 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.....N/A 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.....No, 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.....100 Amp "Air Break"

D. Pole. D.C. Breaker on each of three supplies i.e.:- Main & Aux. Generators & Shore Supply.

and for each outgoing circuit.....Double Pole Switches and fuses for each circuit.

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..... Fuse on each pole Earth Testing, state means provided.....Two Lamps in series with mid point earthed switch &

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.....110 Amps are the reversed current

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

did they operate..... 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.....1% Max, are the ends of all cables having a sectional area of 0.04

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

PARTICULARS OF GENERATING PLANT

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.

JARVIS ROWELL & CO. LTD.

ELECTRICAL CONTRACTORS,

BURNHAM ROAD,

DARTFORD.

H. L. Jarvis

Electrical Engineers.

Date 30/4/60

TELE: 4129

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum 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.

CHANDLER & CO. LTD. (LONDON) LTD.

John G. Giddings

Builder's Signature.

Date 30/4/60

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

Plans. Are approved plans forwarded herewith..... Yes If not, state date of approval.....

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

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

The electrical installation has been constructed and installed under Special Survey and satisfactorily tested on completion.

PLANS ATTACHED.

1. Electrical Arrangement ((Diagrammatic) Plan No.290.

2. Main Panel Wiring (Diagrammatic) Plan No.220.

Total Capacity of Generators..... 20 Kilowatts.

The amount of Fee £ 20 : 0 :

When applied for,

ED MAY 1960

Travelling Expenses (if any) £ 2 : 0 :

When received.

19.....

A. G. Kirby
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRIDAY 17 JUN 1960

Assigned.....

See Rpt. 1



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Lloyd's Register
Foundation