

Rpt. 13.

No. 90619.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 29 9 19 59 When handed in at Local Office 23 10 19 59 Port of GLASGOW
No. in Survey held at PORT GLASGOW Date, First Survey 5-8-59 Last Survey 7-9-1959
Reg. Book. (No. of Visits 5)
on the M.V. "MAKOURIA". Tons { Gross 560.91
Net 256.09
Built at PORT GLASGOW By whom built FERGUSON BROS. Yard No. 422 When built 1959
Owners BRITISH GUIANA RAILWAYS Port belonging to GEORGETOWN.
Installation fitted by J. CHARTERS When fitted 1959
Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. — Radar No

Plans, have they been submitted and approved YES System of Distribution TWO WIRE INSULATED Voltage of Lighting 220
Heating — Power 220 D.C. or A.C., Lighting DC Power DC If A.C. state frequency —
Prime Movers, has the governing been found as per Rule when full load is thrown on and off YES Are turbine emergency governors fitted
with a trip switch — Generators, are they compound wound YES, and level compounded under working conditions YES
Are the generators arranged to run in parallel YES Is the compound winding connected to the negative or positive pole. NEGATIVE
Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing — Have certificates of test for machines
under 100 kw. been supplied and the results found as per Rule YES Position of Generators GENERATOR ROOM

PORT & STARB.
is the ventilation in way of generators satisfactory YES are they clear of inflammable material and protected from mechanical injury and
damage from water, steam and oil YES Switchboards, where are main switchboards placed GENERATOR ROOM
FORWARD ATHWARTSHIPS
are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,
steam and oil YES, what insulation is used for the panels SINDANYD, 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 construction as per Rule, including locking of screws and nuts YES Description of Main Switchgear
for each generator and arrangement of equaliser switches. T.P. CIRCUIT BREAKER WITH 9/12 R/C E.N/V PROTECTION
THE THIRD POLE IS USED AS THE EQUALISER CONNECTION

and the switch and fuse gear (or circuit breakers) for each outgoing circuit D.P. KNIFE SWITCH & REWIREABLE
FUSES

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 2
ammeters 2 voltmeters — synchronising devices. For compound machines in parallel are the ammeters and reverse current
protection devices connected on the pole opposite to the equaliser connection YES Earth Testing, state means provided —
EARTH LAMPS Preference Tripping, state if provided No, and tested —
Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES
make of fuses ARTIC REWIREABLE ADM. TY. PAT. ENG. ELEC. CART. YES If circuit breakers are provided for the generators, at what
overload do they operate 150% FL CURRENT, and at what current do the reverse current protective-
devices operate 15% FL CURRENT. Cables, are they insulated and protected as per Rule 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 <6% BB. volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends YES
Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical
damage YES, are any cables laid under machines or floorplates YES, if so, are they adequately protected YES State
type of cables (if in conduit this should also be stated) in machinery spaces VRLC VRLCAB VCLCAB VCLC, galleys —
and laundries — State how the cables are supported or protected CLIPPED ON SOLID OR
PERFORATED STEEL TRAY, RUN IN PIPE OR CLIPPED DIRECT TO SHIPS STRUCTURE

Are all lead sheaths, armouring and conduits effectually bonded and earthed YES Are all cables passing through decks and watertight
bulkheads provided with deck tubes or watertight glands YES, where unarmoured cables pass through beams, etc., are the holes
effectively bushed YES Refrigerated chambers, are the cables and fittings as per Rule —
Have refrigeration fan motors been constructed under survey — and test certificates supplied —
Are the motors accessible for maintenance at all times —



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Lloyd's Register
Foundation

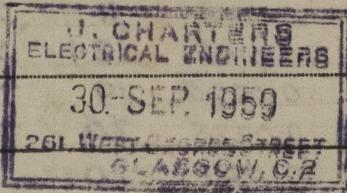
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The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

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.

J. Charters



Electrical Contractors.

Date 30/IX/59

COMPASSES.

Have the compasses been adjusted under working conditions.

Yes
FERGUSON BROTHERS (PORT-GLASGOW), LTD.

R. A. Hanson DIRECTOR

Builder's Signature.

Date

Have the foregoing descriptions and schedules been verified and found correct.

YES

Is this installation a duplicate of a previous case.

No

If so, state name of vessel.

Plans. Are approved plans forwarded herewith.

No

If not, state date of approval.

3-6-59.

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

No

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The electrical installation has been fitted on board this vessel under special survey, tested under working conditions, and found satisfactory. Workmanship and material used was satisfactory.

Total Capacity of Generators 130 Kilowatts.

The amount of Fee ...

... £ 61 : 10 : -

When applied for,

25/IX/59

When received,

19/

Travelling Expenses (if any) £ 1 : 15 : -

J. P. Drum

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 27 OCT 1959

SEE ACCOMPANYING MACHINERY REPORT

Assigned