

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 28 May 1948 When handed in at Local Office 28 May 48 Port of BILBAO Received at London Office 17 AUG 1948

No. in Survey held at SANTANDER Date, First Survey 5 Nov 47 Last Survey 4 February 1948 Reg. Book. on the S.S. MINA MARY (Number of Tons.....)

Built at GIZON By whom built ASTILLEROS G. RIERA Yard No. 9 Tons Gross 392 Net 251 Owners NICANOR NOVAL HEVIA When built 1947 Port belonging to SANTANDER

Electrical Installation fitted by RIEZ ELECTRICIDAD SANTANDER Contract No. 125 When fitted 1947

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

Have plans been submitted and approved YES System of Distribution TWO WIRE SYSTEM Voltage of supply for Lighting 110

Heating Power Direct or Alternating Current, Lighting Power 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 YES 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

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 ENGINE ROOM STARBOARD SIDE ONE METER ABOVE ENGINE PLATFORM

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 YES and vertically YES, 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 NEAR THE 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 YES and vertically YES, what insulation material is used for the panels SLATE, 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 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 SWITCHES

OF THE QUICK BRAKE TYPE and for each outgoing circuit DOUBLE POLE SWITCHES OF THE QUICK BRAKE TYPE

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES 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 YES Earth Testing, state means provided 2 LAMP SYSTEM

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 YES, 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 YES 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 YES, state maximum fall of pressure between bus bars and any point under maximum load 2 INCHES, 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



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.

5-4-48

[Handwritten signature]
TALLERES MECANICOS
VIUDA DE MARTIN
SANTANDER

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass 16.0 MS

Minimum distance between electric generators or motors and steering compass 12.5 MS

The nearest cables to the compasses are as follows:—

A cable carrying 0.33 Ampères ✓ feet from standard compass 10" feet from steering compass.

A cable carrying 7.2 Ampères 7 feet from standard compass 4 MS feet from steering compass.

A cable carrying 1.4 Ampères 4.5 feet from standard compass 6.5 MS 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 NO

The maximum deviation due to electric currents was found to be 1.1-1.2 degrees on ALL courses in the case of the standard compass, and 1.1-1.2 degrees on ALL courses in the case of the steering compass.

TALLERES MECANICOS
VIUDA DE MARTIN MARTIN
Benitez, n.º 7 - Teléfono 1801
SANTANDER

5-4-48

[Handwritten signature]

Builder's Signature.

Date

Is this installation a duplicate of a previous case YES If so, state name of vessel "LEO"

Plans. Are approved plans forwarded herewith NO If not, state date of approval 12-6-46

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.)

This electrical installation has been constructed in accordance with the approved plans dated 12-6-46 and to our Rules & Regulations. The material used has been tested as per our Rules and the workmanship is work. The whole installation has been megger tested and tried under full power found all satisfactory.

Noted: *[Handwritten signature]* 27/8/48

Total Capacity of Generators 2.1 Kilowatts.

The amount of Fee ... £ 3.00 + : When applied for,19.....
Travelling Expenses (if any) £ : : When received,19.....
[Handwritten signature]
Surveyor to Lloyd's Register of Shipping.

Committee's Minute PHI. 10 SEP 1948

Assigned In write see J.E.P.H.

5m.4.30.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minutes.)

BHX