

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

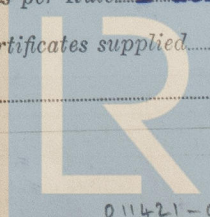
Received at London Office

Date of writing Report 6th July 1956 When handed in at Local Office 14.7.56 Port of BILBAONo. in Survey held at Santander Date, First Survey 11.11.55 Last Survey 11th June 1956
Reg. Book. N.E.No.9 (No. of Visits 8)35565 on the M/V. "SAN FLORO" Tons { Gross 644
Net 250Built at Santander By whom built Corcho Hijos S.A. Yard No. 62 When built 1956Owners José Manuel Pombo Port belonging to SantanderInstallation fitted by Corcho Hijos S.A. When fitted 1956Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No Radar NoPlans, have they been submitted and approved Yes System of Distribution 2 wires Voltage of Lighting 220Heating 220 Power 220 D.C. or A.C., Lighting D.C. Power D.C. 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 fittedwith a trip switch - Generators, are they compound wound Yes, and level compounded under working conditions YesAre the generators arranged to run in parallel Yes (2) Generators Is the compound winding connected to the negative or positive pole negativeHave machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machinesunder 100 kw. been supplied and the results found as per Rule tested Position of Generators Engine room
Engine/Port & Stbd.Is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury anddamage from water, steam and oil Yes Switchboards, where are main switchboards placed Engine room forwardabove platform.

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 Slate, if of synthetic insulatingmaterial is it an Approved Type -, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom asper Rule Yes Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgearfor each generator and arrangement of equaliser switches Double pole circuit breakers with overload and reversecurrent trips and single pole equalizer switch interlocked.and the switch and fuse gear (or circuit breakers) for each outgoing circuit Ordinary double pole linked switches andfuses in each poleAre compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 4ammeters 4 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse currentprotection devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided lampsPreference Tripping, state if provided No, and tested -Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yesmake of fuses A.E.E.S.A., are all fuses labelled Yes If circuit breakers are provided for the generators, at whatoverload do they operate 50%, and at what current do the reverse current protectivedevices operate 12% Cables, are they insulated and protected as per Rule Yesif otherwise than as per Rule are they of an Approved Type -, state maximum fall of pressure between bus bars and any pointunder maximum load 2 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends None

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 No, if so, are they adequately protected - Statetype of cables (if in conduit this should also be stated) in machinery spaces V.R.L.C&Met. braided galleys V.R.L.C. & Met. braidedand laundries None State how the cables are supported or protected Clipped as per Rules to steelplates, bulkhead and deck head.Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertightbulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holeseffectively bushed Yes, lead bushes Refrigerated chambers, are the cables and fittings as per Rule 1 domestic chamberHave refrigeration fan motors been constructed under survey None and test certificates supplied -Are the motors accessible for maintenance at all times Yes

21 JUL 1956

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.

Electrical Contractors.

Date

COMPASSES.

Have the compasses been tested under the following conditions

CORCIO HUOS, S.A.
DIRECTOR-GERENTE

Alartua

Builder's Signature.

Date

ALVARO MADRUGA

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 Yes If not, state date of approval 19.5.55

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) The electric installation has been fitted under Special Survey in accordance with the Society's Rules, approved plans or equivalent and Secretary's letter dated 19.5.55.

The material and workmanship are good.

On completion all tests required by the Rules have been carried out with satisfactory results.

This installation in my opinion is entitled to be classed in this Society.

Enclosures:-

Installation approved plans.

Testing certificate available in this office. Some of electric motors for essential service are second hand motors supplied by the Owners and manufactured in England and U.S.A. but they have been tested under full load working condition abroad and temperatures found in order.

Total Capacity of Generators 167 Kilowatts.

The amount of Fee ... Ptas. 12539

When applied for,

17-7-56

When received,

19

Travelling Expenses (if any) £

2000

Surveyor to Lloyd's Register of Shipping.

FRIDAY 7 SEP 1956

Committee's Minute

Assigned

See Rpt. 46.