

Rpt. 13

No. 8985

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 3rd January 1961 When handed in at Local Office 19 Port of LISBONNo. in Survey held at Viana do Castelo Date, First Survey 12th August 60 Last Survey 23rd Dec. 19 60
Reg. Book(No. of Visits Five)on the m.v. "ESTREMADURA" Tons Gross 700.67
Net -Built at Viana do Castelo By whom built Est. Navais de Viana do Castelo Yard No. 48 When built 1960Owners Companhia dos Caminhos de Ferro Portugueses Port belonging to LISBONInstallation fitted by Estaleiros Navais de Viana do Castelo When fitted 1960Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. Yes Gy.C. No Sub.Sig. No Radar YesPlans, have they been submitted and approved Yes System of Distribution 2 wire DC Voltage of Lighting 220Heating - Power 220 D.C. or A.C. Lighting - Power - 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 YesAre the generators arranged to run in parallel Yes 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 Yes Position of Generators Engine room aft p & s.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 Stard aft engine roomaft of OF tanks at sideare 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 Dead front, 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 - Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgearfor each generator and arrangement of equaliser switches 3 pole circuit breakers with overload short circuit and
reverse current tripsand the switch and fuse gear (or circuit breakers) for each outgoing circuit 2 pole knife switches with fuses following in
seriesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule - Instruments on main switchboard 2ammeters 2 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 E.E. TCP & R, are all fuses labelled Yes If circuit breakers are provided for the generators, at whatoverload do they operate 130% full load, and at what current do the reverse current protectivedevices operate 15 amps. 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 Wind. 3 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends -

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 VR LS., galleys LS.and laundries - State how the cables are supported or protected Perforated steel trays, paintedcables clipped with brass clips.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 Refrigerated chambers, are the cables and fittings as per Rule NoneHave refrigeration fan motors been constructed under survey - and test certificates supplied -Are the motors accessible for maintenance at all times -

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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.

ESTALEIROS NAVAIS DE VIANA DO CASTELO, S. A. R. L.
p. p. do Administrador-Delegado

[Handwritten signature]

Electrical Contractors.

Date 17/2/61

COMPASSES

Have the compasses been adjusted under working conditions... Yes

ESTALEIROS NAVAIS DE VIANA DO CASTELO, S. A. R. L.
p. p. do Administrador-Delegado

[Handwritten signature]

Builder's Signature.

Date 17/2/61

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 -

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.)

This installation has been effected under Special Survey in accordance with the Rules, approved plans and Secretary's letters.

The materials used and workmanship are good.

It is recommended that the installation as part of the machinery installation is eligible to be classed +LMC.

Drawings have been retained on the sister ship now completing.

Total Capacity of Generators... 60 Kilowatts.

The amount of Fee ... £ 6,650.00 : When applied for, 23/2/ 1961

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

[Handwritten signature]

Surveyor to Lloyd's Register of Shipping

E. A. Pickering

Committee's Minute... FRIDAY 12 MAY 1961

Assigned... See page 46

8.3.61

5m. 3.58—Transfer. (MADE AND PRINTED IN ENGLAND) (The Surveyors are requested not to write on or below the space for Committee Minute.)



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