

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 machines under 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 Starboard engine room  
aft of OR 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 insulating material is it an Approved Type -, 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 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 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 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 E.E. TCP & R, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 130% full load, and at what current do the reverse current protective devices 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 point under 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 - State type 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, painted cables clipped with brass clips.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 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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Foundation

012888 - 012891 - 00391/2

*Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory.....* Yes

DESCRIPTION OF GENERATOR	No. of	MAKER	RATED AT				PRIME MOVER	
			Kw. per Generator	Volts	Ampères	Revs. per Min.	TYPE	MAKER
MAIN ... ..	1	HANSA MOTORENFABRIK	30	230	130	1000	O.E.	SUDDEUTSCHE BREMSSEN A.G.
	1	GUSTAV ALTMANN	30	230	130	1000	O.E.	SUDDEUTSCHE BREMSSEN A.G.
EMERGENCY ... ROTARY TRANSFORMER								

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED	No.	B.H.P.							
Steering machinery	1	2,5	1	2,5	10,4	15,5	50	VR	LS.
Wash deck fire & bilge p'p	1	3,5	1	2,5	14,0	15,5	44	VR	LS.
OF Transfer pump	1	8,0	1	2,5	13,0	15,5	50	VR	LS.
L.O. pump	1	8,0	1	10,0	33,0	38,0	70	VR	LS.
Capstan	1	8,0	1	10,0	33,0	38,0	50	VR	LS.
Windlass	1	12,0	1	25,0	50,0	63,0	120	VR	LS.

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient

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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

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

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

When received,

19

Travelling Expenses (if any) £ : Nil.

Surveyor to Lloyd's Register of Shipping

E. A. Pickering

Committee's Minute FRIDAY 12 MAY 1961

Assigned

See Lys 46



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