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24 DEC 1953

Rpt. 13.

No. 37/58

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 12th Nov. 1953. When handed in at Local Office 1953. Port of Rotterdam

No. in Survey held at Heusden. Date, First Survey 25-2-53 Last Survey 23-11-1953

Reg. Book. 35408s on the m.s. "LISBETH. M." (No. of Visits 12)

Built at Heusden. By whom built De Haan & Oerlemans Yard No. 274. When built 1953

Owners Metcalf Motor Coasters Ltd (T.J. Metcalf Mgr.) Port belonging to London.

Installation fitted by Messrs. A. de Hoop NV. When fitted 1953.

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

Plans, have they been submitted and approved Yes System of Distribution Two wire insulated. Voltage of Lighting 110

Heating 110 Power 110 D.C. or A.C., Lighting DC 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 fitted with a trip switch — Generators, are they compound wound Yes Diesel Gen. 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 In engine room. Main generators port side & starboard side. Shaft generators aft.

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 In engine room. On platform; port side.

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 Dead front type.

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 Main generator: triple pole circuit breakers fitted with O/C, Rev. Curr., & U.V. releases, with third pole as equaliser switch. Shaft generators: D.P. circuit breakers fitted with O/C, Rev. Curr., & U.V. releases.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit D.P. switches & fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 6

ammeters 4 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 Hazemeyer & Weber, are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate 50% and at what current do the reverse current protective devices operate 10-15%

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 Under 6% 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 VIR IR type, galleys VIR IR type; MICE.

and laundries — State how the cables are supported or protected

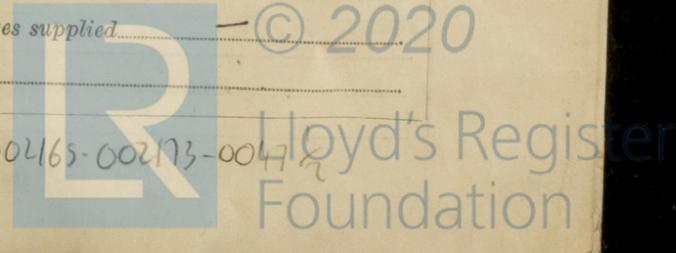
Machinery Spaces: Slipped to steel tray or steelwork. Accommodations: Slipped to woodwork.

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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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.

*H. de Hoop*  
 "A. de HOOP" N.V.

Electrical Contractors.

Date 18<sup>th</sup> November 1953

COMPASSES.

Have the compasses been adjusted under working conditions

*Yes.*

*[Signature]*  
 Builder's Signature.

Date 23<sup>rd</sup> Nov 1953.

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 29<sup>th</sup> May, 1953

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 electrical equipment of this vessel has been installed under special survey in conformity with the Society's rules and regulations and in accordance with the Secretary's letter and the approved plans.*

*The materials used are of a good quality and the design and workmanship are good. On completion the equipment has been tried out under full working conditions and found satisfactory. This equipment is in my opinion suitable for a classed vessel.*

Total Capacity of Generators 84 Kilowatts.

The amount of Fee ... £ 600.- : When applied for, 17.12.1953

Travelling Expenses (if any) £ 85.- : When received, 19

*A. Bailey*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUESDAY 19 JAN 1954

Assigned See Ref. 46.

2m.8.50—Transfer. (MADE AND PRINTED IN ENGLAND.)  
 (The Surveyors are requested not to write on or below the space for Committee's Minutes.)



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