

Rpt. 13.

No. 43465

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

24 MAY 1957

Date of writing Report 5th May 1957 When handed in at Local Office 19 Port of ROTTERDAM Received at London Office

No. in Survey held at Slikkerveer Date, First Survey 22.2.57 Last Survey 21.3.1957 Reg. Book.

(No. of Visits 4)

9/92652 on the Motorship "BERN" Tons { Gross 499.99 Net 296.23

Built at Slikkerveer By whom built N.V. Scheepsbouwwerf v/h De Groot & van Vliet Yard No. 317 When built 1957

Owners E. Feenstra and T. de Groot Port belonging to Dordrecht

Installation fitted by Messrs. De Groot & van Vliet, Slikkerveer When fitted 1957

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 2-wire insulated Voltage of Lighting 110

Heating - Power 110 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 fitted with a trip switch - Generators, are they compound wound yes, /, and level compounded under working conditions yes

Are the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole negative pole

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 E.R. floor level

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 E.R. floor level 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 iron glad boxes, 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 D.P. D.T. switch & D.P. fuses

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

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

ammeters three 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. -- Earth Testing, state means provided earth

indicating lamps Preference Tripping, state if provided --, 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 --, and at what current do the reverse current protective

devices operate -- 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 6% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends Yes

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-LC & MWB, galleys VIR-LC & MWB

and laundries -- State how the cables are supported or protected Machinery spaces: LC cable

clipped to perforated plating. Cargo hold: VIR-LC & MWB cable run in conduit. Accommodation

spaces: VIR-LC cable clipped to wood grounds or surface.

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 --

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	Higgs	10	110	91	1000	Diesel	Samofa <i>Rushling</i>
	1	Hansa	4.4	110	40	1500	Diesel	Samofa <i>Hansa</i>
	1	Higgs	7	110	63.6	$\frac{1000}{1500}$		Shaft driven
EMERGENCY ...								
ROTARY								
TRANSFORMER								

[illegible][illegible][illegible]

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 adjusted under working conditions. Yes.

Builder's Signature.

Date 11-5-57

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 --

Secretary's letter

Plans. Are approved plans forwarded herewith. No If not, state date of approval of 20th May, 1957.

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 or equivalent thereto.

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 22 Kilowatts.

The amount of Fee ... £1 ... £ 242. --: When applied for, 22-5-1957.

Travelling Expenses (if any) £1. 31. 50 When received, 19

Surveyor to Lloyd's Register of Shipping.

FRIDAY 12 JUL 1957

Committee's Minute

Assigned See Rpt. 1.



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