

Rpt. 13.

No. 568

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 12.3. 1952 When handed in at Local Office 12.3. 1952 Port of K I E L

No. in Survey held at Kiel Date, First Survey 21. October 51 Last Survey 18th January 1952

Reg. Book. (No. of Visits 14)

22171 on the 4 Mast Barque "PASSAT"

Tons { Gross 3137
Net 2585

Built at Hamburg By whom built Blohm & Voss Yard No. - When built 1911

Owners Rederei Schlieffen Port belonging to Lübeck

Installation fitted by Howaldtswerke A.G. Kiel When fitted 1952

Is 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 no

Plans, have they been submitted and approved yes System of Distribution DC - 1 wire Voltage of Lighting 220

Heating - Power 220 D.C. or A.C., Lighting DC Power DC 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 yes Is the compound winding connected to the negative or positive pole to the 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 Engine Room starbd. forwd. & aft

and aft top.

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. starboard

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 Portinax, if of synthetic insulating

material is it an Approved Type yes, 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 Bipolar automatic circuit breakers, one pole for the

equalizer, without releaser, the other pole with no-voltage-reversed current, overload-releaser

and the switch and fuse gear (or circuit breakers) for each outgoing circuit single pole switches and fuses up to 100 Amps.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 4

ammeters 3 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 none

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 Siemens UZ, are all fuses labelled yes If circuit breakers are provided for the generators, at what

overload do they operate 145 A and 75 A, and at what current do the reverse current protective

devices operate 15 A and 8 A 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 7 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends none installed

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. yes, if so, are they adequately protected yes State

type of cables (if in conduit this should also be stated) in machinery spaces MK-cables, galley MK

and laundries MK State how the cables are supported or protected with 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 -- Refrigerated chambers, are the cables and fittings as per Rule yes

Have refrigeration fan motors been constructed under survey -- and test certificates supplied --

Are the motors accessible for maintenance at all times for domestic purposes only.



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Lloyd's Register
Foundation

DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
Lighting DFB I/Ia	single	35mm ²	67	77.5	60 m	rubber	lead covered+braided
" II	"	50 ²	89	98	60m	"	" " " "
" III	"	16 ²	45	48.1	20m	"	" " " "
DFB Workshop	"	10 ²	26	38.1	18m	"	" " " "
Shore connection	"	25 ²	60	62.6	20m	"	" " " "
Laundry	"	70 ²	99	124	100m	"	" " " "
Engine Telegraph	"	1.5 ²	1.5	6.6	10m	"	" " " "
Wireless	bipolar	16 ²	30	48.1	50m	"	" " " "
Control switchboard for navig.lights	"	6 ²	8.3	29.4	64m	"	" " " " (24 Volts)
Sea water heater for separator	single	4 ²	13.7	21.1	10m	"	" " " "
Turbulo filter	"	2.5 ²	10.9	12.9	12m	"	" " " "
Fresh water hydrophor tank	"	6 ²	20.4	29.4	15m	"	" " " "
L.O. heater for separator	"	25 ²	54.5	62.6	10m	"	" " " "
Fresh water calorifier (200 l)	"	10 ²	27.3	38.1	22m	"	" " " "
Exho sounder	bipolar	1.5 ²	2.0	6.6	150m	"	" " " "
Fresh water calorifier (80 l)	single	4 ²	18.2	21.1	75m	"	" " " "
Fresh water calorifier (80 l)	"	4 ²	18.2	21.1	75m	"	" " " "

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Fan for engine room	1	1.0	single	1.5mm ²	4.3	6.6	13m	rubber	LEAD COVERED+braided
O.F. transfer pump	1	0.8	"	1.5 ²	3.8	6.6	15	"	" " " "
O.F. burner (Saacke)	1	0.3	"	1.5 ²	1.4	6.6	10	"	" " " "
Sea water hydrophor pump	1	3.1	"	2.5 ²	13.2	12.9	16	"	" " " " *
L.O. separator	1	1.97	"	2.5 ²	8.8	12.9	12	"	" " " "
L.O. stand.by pump	1	9.4	"	16 ²	39	48.1	15	"	" " " "
Aux. sea water-cooling pump	1	3.0	"	2.5 ²	13.2	12.9	14	"	" " " " *
Converter charging accumulat.	1	2.1	"	4 ²	8.9	21.1	12	"	" " " "
Feed pump	1	0.64	"	1.5 ²	3.1	6.6	9	"	" " " "
Bilge pump	1	11.1	"	25 ²	46	62.6	15	"	" " " "
Ballast pump	1	15.6	"	35 ²	62	77.5	15	"	" " " "
Starting air compressors	2	17.7	"	35 ²	71.5	77.5	18	"	" " " "
Fan for aft ship	1	1.5	"	1.5 ²	6.7	6.6	12	"	" " " " *
Fans for cargo holds	10	1.0	"	1.5 ²	4.3	6.6	200	"	" " " "
Refr. compressor (domestic)	1	5.4	"	6 ²	22.2	29.4	80	"	" " " "
Sea water cooling pump	1	2.0	"	2.5 ²	9.1	12.9	80	"	" " " "
Fresh water hydrophor pump	1	3.0	"	2.5 ²	13.2	12.9	15	"	" " " " *

Note: As far as cables lie in the zone of compass, they are installed bipolar.

*: The area of these four cables, which have been installed in accordance with Germanischer Lloyd Rules, could owing to the short time of delivery, not be increased.

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



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.

Howaldtswerke

Aktiengesellschaft

Werk Kiel

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions

Builder's Signature.

Date

Have the foregoing descriptions and schedules been verified and found correct. yes

Is this installation a duplicate of a previous case yes If so, state name of vessel 4 Mast Barque "PAMIR"

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.)

The installation of the generators, switchboard and cables on the single wire system has been carried out in accordance with the Rules, approved plans and the Secretary's letters, and the materials and workmanship used are good.

The vessel is eligible, in my opinion, to be classed with this Society with the notation LMC 1,52 without the distinguishing mark *.

Total Capacity of Generators 75 Kilowatts.

The amount of Fee ... £ : : When applied for,

See Report 8 (No. 568)

Travelling Expenses (if any) £ : : When received,

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

JUL 1 JUL 1952

Assigned

2m.850.-Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyor are requested not to write on or below the space for Committee's Minute.)