

Rpt. 13.

No. 12 986

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 19.9. 1963 When handed in at Local Office 19 Port of HAMBURG

No. in Survey held at Elmshorn Date, First Survey 26.1.63 Last Survey 13.8.1963
Reg. Book. (No. of Visits 13)

on the "I W T A G U M T I" Tons Gross Net

Built at Elmshorn By whom built Messrs. Kremer Sohn Yard No. 1100 When built 1963

Owners Inland Water Transport Authority Port belonging to Narayanganj
East Pakistan

Installation fitted by Messrs. Gebr. Meyn, Elmshorn When fitted 1963

Is vessel equipped for carrying Petroleum in bulk - Is vessel equipped with D.F. - E.S.D. - Gy.C. - Sub.Sig. - Radar -

Plans, have they been submitted and approved yes System of Distribution two wire insulated Voltage of Lighting 110 V

Heating - Power 110 V 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 -

Are the generators arranged to run in parallel no Is the compound winding connected to the negative or positive 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 p+s ER platform

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 aft ER-bulkhead

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 construction, 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

Doublepole switches and fuses, for generators doublepole change over switch

and the switch and fuse gear (or circuit breakers) for each outgoing circuit

Doublepole switches and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 3

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 - Earth Testing, state means provided ohmmeter

and earth 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 Messrs. Siemens 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 ?

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 less than 60 lbs. 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 LC-metal braided MK, galleys LC-metal braided MK

and laundries - State how the cables are supported or protected Suitable clipped to metal

trays, supports, framework, structure of wood grounds and protected by pipes or

plates as necessary.

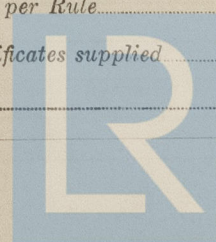
Are all lead sheaths, armouring and conduits effectually bonded and earthed yes Are all cables passing through decks and watertight

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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Foundation

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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes Emergency Supply, state position

Battery placed p.side main deck - 110 V

Navigation Lamps, are they separately wired yes controlled by separate double pole switches and fuses yes Are the switches and fuses in a position accessible only to the officers on watch yes is an automatic indicator fitted yes Is an alternative supply provided yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule yes, state battery capacity in ampere hours 120 Where required to do so does it comply with 1948 International Convention yes

Lighting, is fluorescent lighting fitted no If so, state nominal lamp voltage - and compartments where lamps are fitted -

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof yes

Searchlights, No. of 1, whether fixed or portable fixed, are they of the carbon arc or of the filament type filament

Heating and Cooking, is the general construction as per Rule -, are the frames effectually earthed -, are heaters in the accommodation of the convection type - Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing -

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule yes

Lightning Conductors, where required are they fitted as per Rule -

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with -, are all fuses of an Approved Cartridge Type -, make of fuse - Are the fittings for pump rooms, tween deck spaces, etc., in accordance with the special requirements for such ships - Are all cables lead covered as per Rule -

E.S.D., if fitted state maker - location of transmitter and receiver -

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations yes

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

PARTICULARS OF GENERATING PLANT

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Amperes.	Horse- power Min.	TYPE.	MAKER.
MAIN	1	Messrs. Kaiser, Berlin	12	115	104	1500	oil eng.	Messrs. Deutz AG.
	1	Messrs. Kaiser, Berlin	12	115	104	1500	oil eng.	Messrs. Deutz AG.
EMERGENCY ...								
ROTARY								
TRANSFORMER								

GENERATOR CABLES.

[illegible]

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

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

[illegible]

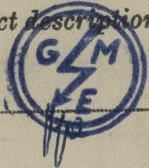
MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	H.P.	MOTOR SPEEDS.		rpm	V	A	Type of motor	Remarks
			mm	mm					
Fan battery room	1	0.13	1	1.5	1.7	12	20.0	rubber LC-metal braided	MK
ER-fan	2	0.3	1	1.5	2.9	17	28.5	Butyl LC-metal braided	MKH
OF transfer pump	1	0.5	1	1.5	4.9	17	36.0	Butyl LC-metal braided	MKH
FW sanitary pump	1	1.0	1	1.5	8.8	12	20.5	rubber LC-metal braided	MK
SW sanitary pump	1	1.0	1	1.5	8.8	12	22.5	rubber LC-metal braided	MK
Galley burner	1	-	1	1.5	0.2	12	21.0	rubber LC-metal braided	MK

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. **GEBR. MEYN K.-G.**



Elmshorn
Berliner Straße 18
Königsstraße 13

Electrical Contractors.

Date 1.10.63

COMPASSES.

Have the compasses been adjusted under working conditions. yes

D. W. Kremer Sohn
Schiffsverf.
Elmshorn

Builder's Signature.

Date 1/10/63

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

Is this installation a duplicate of a previous case. - If so, state name of vessel. -

Plans. Are approved plans forwarded herewith no If not, state date of approval 12.11.62

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 ship has been installed under Special Survey in accordance with the approved plans and the Secretaries' letters. The material and workmanship are good.

On completion the equipment has been tried under working conditions and found satisfactory. The electrical equipment is, in my opinion, suitable for a ship classed with the Society.

Total Capacity of Generators 24 Kilowatts.

The amount of Fee ... £ 47: 0.0 When applied for,

19

Travelling Expenses (if any) £ 6: 5.0

When received,

19

Robert Antonie
Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRIDAY - 1 NOV 1963**

Assigned Supt