

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

24 JUL 1952

Date of writing Report **18th June 1952** When handed in at Local Office _____ 19____ Port of **HAMBURG**

Survey held at **Elmshorn** Date, First Survey **14th Nov. 51** Last Survey **18th April 1952**

Place of Survey **Motor Tanker "ISEBEK"** (No. of Visits **16**)

Tons **497.95** Gross **270** Net

Built at **Elmshorn** By whom built **D.W. Kremer Sohn** Yard No. **1001** When built **1952**

Owners **Knöhr & Burchard Nfl.** Port belonging to **Hamburg**

Installation fitted by **Gebr. Meyn, Elmshorn** When fitted **1952**

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

Plans, have they been submitted and approved **yes** System of Distribution **2 wire** Voltage of Lighting **110**

Rating **-** Power **110 V** 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 **-**

Are the generators arranged to run in parallel **no** 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 **under** Have certificates of test for machines

over 100 kw. been supplied and the results found as per Rule **yes** Position of Generators **engine room**

Port aft (30 KW diesel generator), Starbd. aft (10 KW shaft generator) Stbd. outboard (3 KW emergency diesel set).

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 **engine room 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 from 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 **double linked switch with fuse in each pole**

Is the switch and fuse gear (or circuit breakers) for each outgoing circuit **double pole linked switch with fuse in**

each pole.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule **yes** Instruments on main switchboard **5**

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**

Preference Tripping, state if provided **no**, and tested **-**

Arresters, Circuit Breakers and Fuses, are they as per Rule **yes**, are the fuses an Approved Type **yes**

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

load do they operate **not provided**, and at what current do the reverse current protective

devices operate **-** Cables, are they insulated and protected as per Rule **yes**

Are they 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 **4** 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 **boiler fan**, if so, are they adequately protected **yes** State

location of cables (if in conduit this should also be stated) in machinery spaces **M.K. Marine**, galleys **M.K. Marine**

laundries **-** State how the cables are supported or protected **Suitably clipped to cable trays**

and laid in tubes.

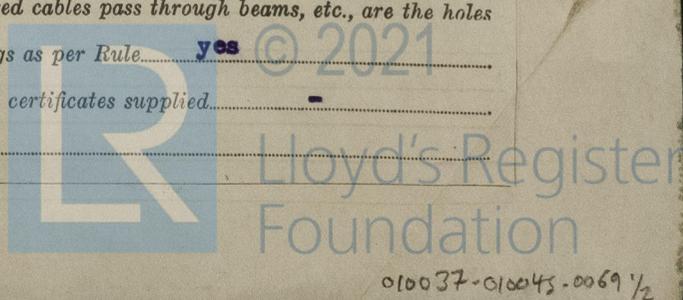
Are all lead sheaths, armouring and conduits effectually bonded and earthed **yes** Are all cables passing through decks and watertight

heads 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**

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

Are the motors accessible for maintenance at all times **-**



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

Emergency diesel generator Stand, aft and secondary batteries Port side tween deck.

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

ampère hours... **125 Ah**... Where required to do so does it comply with 1948 International Convention... **-**

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 type**

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... **none**

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... **yes**... are all fuses of an Approved Cartridge Type... **yes**... make of fuse... **Siemens**... Are the fittings for pump

rooms, tween deck spaces, etc., in accordance with the special requirements for such ships... **yes**... Are all cables lead covered as per Rule... **yes**

E.S.D., if fitted state maker... **Atlas-Werke**... location of transmitter and receiver... **frames 26-27 and 27-28 Port side**

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.	Ampères.	Revs. per Min.	
MAIN	1	Hans Still	30	115	261	800	Oil Eng. M. W. M.
Shaft	1	Garbe-Lohmeyer & Co.	10	115	87	1000/1400	M.E. driven M. A. K.
EMERGENCY ROTARY TRANSFORMER	1	Bauscher A. G.	3	115	26	1500	Oil Eng. Bauscher A. G.

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) in m.	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	1	30	2	95	261	300	14	Rubber	L. C. & metalbraided (MK)
" EQUALISER	1	10	1	50	87	99	35	do.	do.
Shaft driven	1	10	1	50	87	99	35	do.	do.
EMERGENCY GENERATOR	1	3	1	10	26	38	29	do.	do.
ROTARY TRANSFORMER: MOTOR									
" GENERATOR									

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

DESCRIPTION.	No. of	Kw.	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return) in m.	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	In the Circuit.	Rule.		
Windlass (1/2 hr. rating) and Bilge/Ballast pump	1	70	101/45	150 (1/2 hr)	92	Rubber	L. C. & metalbraided (MK)

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

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return) in m.	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. sq. mm.	In the Circuit.	Rule.			
Lighting D.B. I (bridge and quarters)	1	6	25	29	40	Rubber	L. C. & metalbraided (MK)
Lighting D.B. II (navigation board)	1	1.5	2.5	9.5	40	"	"
Lighting D.B. III (quarters)	1	4	20	22.5	28	"	"

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	HP or KW	CONDUCTORS.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return) in m.	INSULATION.	PROTECTIVE COVERING.		
			No. in Parallel per Pole.	In the Circuit.	Rule.				
Bilge and Ballast pump	1	15	1	95	x 156	150	33	Rubber	L. C. & metalbraided (MK)
Aux. Air Compressor	1	8.5	1	35	@ 91	85 (1/2 hr)	24	"	"
Lubricating oil pump	1	2	1	6	23.2	29	44	"	"
Fuel Oil transfer pump	1	1.2	1	2.5	13.2	15.5	14	"	"
Boiler fan	1	1.1	1	2.5	13.4	15.5	14	"	"
Seawater Cooling pump	1	0.55	1	1.5	7	9.5	16	"	"
Windlass	1	9	1	50	101	115	38	"	"
Bilge & Ballast pump (forepeak)	1	4	1	16	45	49	35	"	"

x 140 measured at full load
g 80 measured at full load.

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.

Gehr. Meyn, Elmshorn
Ass. elektr. Anlagen

Gehr Meyn

Electrical Contractors.

Date 23. 6. 52.

COMPASSES.

Have the compasses been adjusted under working conditions..... yes

D. W. Kremer Sohn

D. W. Kremer Sohn

Builder's Signature.

Date 23. 6. 52

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.) The electrical equipment has been installed under Special Survey in accordance with the approved plans and the Secretary's letters. The materials and workmanship are good. On completion the equipment was tested under working conditions and found satisfactory. This equipment is in my opinion, suitable for a classed vessel.

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators..... 43 Kilowatts.

The amount of Fee ... DM 480 : When applied for, 19

Travelling Expenses (if any) DM 60 : When received, 19

[Signature]

Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... 22 AUG 1952

Assigned... [Signature]

29.7.52

