

# Report on Electrical Equipment.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

17 JAN 1946

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No. in Reg. Book. (Number of Visits.....)on the m.v. "KLÖVERTRE" Tons {Gross 731  
Net 466Built at Stockholm By whom built Ekensbergs Varv Yard No. 185 When built 1945Owners Messrs. The Eastern Shipping Co. A.S. Port belonging to OsloElectrical Installation fitted by Elektriska A.B. "A.E.G." Contract No ..... When fitted 1945Is vessel fitted for carrying Petroleum in bulk yes Is vessel equipped with D. F. yes E. S. D. no Gy. C. no Sub. Sig. noHave plans been submitted and approved yes System of Distribution two conductor insulated Voltage of supply for Lighting 110Heating no Power no Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state frequency..... ✓ Prime Movers,has the governing been tested and found efficient when the whole load is suddenly thrown on and off yes Are turbine emergency governors fitted with atrip switch as per Rule..... ✓ Generators, are they compound wound yes are they level compounded under working conditions yesif not compound wound state distance between generators ..... ✓ and from switchboard ..... ✓ Where more than one generator is fitted are theyarranged to run in parallel no are shunt field regulators provided yes Is the compound winding connected to the negative or positive polelive pole Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing ..... ✓ Have certificates offor machines under 100 kw. been supplied yes and the results found as per rule yes Are the lubricating arrangements and the constructionof the generators as per rule yes Position of Generators in engine room on portside and starboard side ofmain engine is the ventilation in way of generators satisfactory yes are they clear of inflammable material yes if situatednear unprotected combustible material state distance from same horizontally ..... ✓ and vertically ..... ✓ are the generators protected from mechanicalinjury and damage from water, steam and oil yes are the bedplates and frames earthed yes and the prime movers and generators in metalliccontact yes Switchboards, where are main switchboards placed in engine room on portside forward of main engineThe battery control panel is placed in the recess forward of the engine room for the aux. diesel driving the cargo pumps.are they in accessible positions, free from inflammable gases and acid fumes yes are they protected from mechanical injury and damage from water, steamand oil yes if situated near unprotected combustible material state distance from same horizontally ..... ✓ and vertically ..... ✓ what insulationmaterial is used for the panels mica, bakelite, steatite, porcelain if of synthetic insulating material is it an Approved Type yes if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule ..... ✓ Is the frame effectually earthed yesIs the construction as per Rule yes including accessibility of parts yes absence of fuses on the back of the board yes individual fusesto pilot and earth lamps, voltmeters, etc., yes locking of screws and nuts yes labelling of apparatus and fuses yes fuses on the deadside of switches yes Description of Main Switchgear for each generator and arrangement of equaliser switches main generator: a d.p. linkedswitch & d.p. fuses - aux. generator: a d.p. change over switch & d.p. fuses - battery: a quad. pole change overswitch, 3.p. reversed current cut out, variable charging resistance, d.p. fuses for charging & d.p. fuses for dischargeand for each outgoing circuit a d.p. linked switch & d.p. fuses or small type circuit breakers (Elfa type)Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard twoammeters two voltmeters ..... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection yes Earth Testing, state means provided a voltmeter calibrated as ohmmeter & C.O. switch



## GENERATOR CABLES.

DESCRIPTION	KILOWATTS	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return feet).	INSULATED WITH	HOW PROTECTED.
		No. in Parallel Per Pole	Sectional Area or No. and Dia. of Strands. <small>Sq. ins. or sq. mm.</small>	In the Circuit	Rule			
MAIN GENERATOR .....	20	1	150	174	203 ✓	18	rubber	Lead sheath & steelwire - braided
" " EQUALISER .....								
Aux. " " .....	8	2	32	69	96 <sup>150</sup>	60	"	" "
Aux. Battery (110v. 60 A.H.) .....		1	10	24 <i>inservice</i>	38 ✓	18 (2x)	"	" "
EMERGENCY GENERATOR .....								
ROTARY TRANSFORMER: MOTOR .....								
" " GENERATOR .....								

### MAIN DISTRIBUTION CABLES.

[illegible]

## LIGHTING AND HEATING, ETC., CABLES.

DESCRIPTION	NO. OF CIRCUITS	WIRE SIZE	WIRE TYPE	WIRE LENGTH	WIRE WEIGHT	WIRE COLOR	WIRE TYPE	WIRE WEIGHT
WIRELESS	1	4	20/psc	22	40		[this circuit is not in use at the moment]	
NAVIGATION LIGHTS (emergency supply)	1	1.5	1.6	7	45		"	"
LIGHTING AND HEATING								
All final subcircuits in accommodation	1	1.5	3	7	-		"	Lead sheathed
All final subcircuits in engine room, bathrooms, fore-casts, on deck (lighting only)	1	1.5	3	7	-		"	Lead sheathed & steelwire-braided

## MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B. H. P.								
cooling water pump	1	4	1	10	32	38	24	"	"	"
sanitary & bilge pump	1	4.5	1	10	36	38	60	"	"	"
oil fuel transf. pump	1	1.8	1	2.5	13	13	60	"	"	"
oil purifier	1	.8	1	2.5	8	13	50	"	"	"
hydrafor motor	1	1	1	2.5	10	13	25	"	"	"
refrigerator motor	1	.5	1	1.5	6	7	30	"	"	"
windlass motor	1	16	1	70	125	131	240	"	"	"
						(60 min)				