



29 OCT 1941

No. 5263

## Report on Electrical Equipment.

(OFFICIAL FORM FOR THE PROPULSION OF THE VESSEL)

14.10, 41. Date of survey 1941. Port of STOCKHOLM.  
No. of survey held at Stockholm Date of survey 8.4. Last survey 21.7, 1941.  
Reg. No. 20  
Name of vessel Steel Sc. Motortanker "GLAN" Tonnage (Gross) 540 (Net) 362  
Built at Stockholm By whom built A/B Ekensbergs Varv Yard No. 177 When built 1941  
Owner Rederi A/B Transocean Port belonging to Gothenburg

Electrical Installation fitted by Allmänna Svenska Elektriska A.-B. Contract No. - When fitted 1941

Is vessel fitted for carrying Petroleum in bulk? Yes Is vessel equipped with D.F. - B.S.D. - Gy. - - - -

Have plans been submitted and approved? Yes System of Distribution Two wire system Voltage of system or lighting 115

Power 115V. Direct or Alternating Current, frequency 50 Hz. - Prime Movers

Is the governing device such that when the whole load is suddenly thrown on it, Yes

Are they so arranged as to be protected under working conditions? Yes

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Switches, Circuit Breakers and Fuses, are they as per Rule **Yes** are the fuses an approved type **Disized** are all fuses labelled as per Rule **Yes** are the reversed current protection devices connected on the full opposite to the equivalent connection **Yes** have they been tested under working conditions **Yes** Joint Boxes, Section Boards and Distribution Boards, as the construction and position as per Rule **Yes**

Cables, are they insulated and protected as per the appropriate Tables in the Rules **Yes** if otherwise than as per Rule are they of an approved type **Yes** state maximum fall of pressure between bus bars and any point under maximum load **3.6 v.** are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets **Yes** Are paper insulated and varnished cambric insulated cables sealed at the exposed ends **Yes** with insulating compound **Yes** or waterproof insulating tape **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 cables laid under machines or floorplates **No** if so, are they adequately protected **Yes** Are cables in machinery spaces, galleys, lavatories, etc., lead covered **Yes** or run in conduit **Yes** State how the cables are supported and protected **Supported by clips, armoured and lead covered.**

Are all lead sheaths, armoured and conduits effectually bonded and earthed **Yes** Refrigerated chambers, are the cables and fittings as per Rule **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** and with what material **Lead** Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule **Yes** Emergency Supply, state position **None.** and method of control **Yes**

Navigation Lamps, are they separately wired **Yes** controlled by separate double pole switches **Yes** 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** Secondary Batteries are they constructed and fitted as per Rule **Yes** are they adequately ventilated **Yes** fittings, are all fittings on weather decks **Yes** engine rooms and wherever exposed to drip or condensed moisture **Yes** Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present **Yes** if so, how are they protected **SEE LETTER**

and where are the controlling switches fitted **SEE LETTER** are all fittings suitably ventilated **Yes** are all fittings and accessories constructed and installed as per Rule **Yes** Searchlight Lamps, No. of **None** whether fixed or portable **Yes** are their fittings as per Rule **Yes** Heating and Cooking, is the general construction as per Rule **Yes**

are the frames effectually earthed **Yes** are heaters in the accommodation of the connection type **Yes** Motors are all motors constructed and installed as per Rule **Yes** and placed in well ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil **Yes** if situated near unprotected combustible material state minimum distance from same horizontally **Yes** and vertically **Yes** Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and **Yes** Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results **Yes** Control Gear and Resistances are they constructed and fitted as per Rule **Yes** ships carrying Oil having a Flash Point less than **Yes** the special requirements of the Rules for such ships been complied with **SEE LETTER** are they of an approved type **Disized** If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof type **None fitted** Spare Gear, if the vessel is for open sea service have any been provided as per Rule **Yes** are they suitably stored in dry situations **Yes** insulation Tests, has the insulation resistance of oil circuits and apparatus been properly tested and found satisfactory **Yes**

PARTICULARS OF GENERATING PLANT

DESCRIPTION OF GENERATOR	No. of	Kilowatts	RATED AT			DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
			Volts	Amps	Revs. per min.		Fuel Used	Flash Point of Fuel
MAIN	One	25.0	115	218.0	800	Belt from Aux. Engine	Diesel Oil	80° C.
	One	5.0	110	45.5	920	Belt from Aux. Engine	Diesel Oil	80° C.
EMERGENCY								
RESERVE								
TRANSFORMER								

Also Diesel Eng. E.I.B. also driving aux. comp. & a large pump.



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GENERATOR CABLES.

DESCRIPTION	ELEVATION	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return feet) Met.	INSULATED WITH	HOW PROTECTED
		No. in Cable	Cross-sectional Area of No. 4-0 D.C. W. XXXX sq. mil.	In the Circuit	Return			
MAIN GENERATOR	25	2	140.0	218.0	250.0	12.0	Rubber	Lead covered and armoured.
Aux. <del>XXXXXXXX</del>	5	1	16.0	45.0	50.0	28.0	"	- " -
EMERGENCY GENERATOR								
TRANSFORMER MOTOR								
GENERATOR								

MAIN DISTRIBUTION CABLES.

ADJ. SWITCHBOARDS AND SECTION BOARDS								
1. Engine Room		1	6.0	10.0	28.0	1.0	Rubber	Lead covered and armoured.
2. Saloon etc. Aft		1	10.0	23.0	37.0	13.0	"	- " -
3. Bridge (navigation lights)		1	4.0	3.0	22.0	10.0	"	- " -

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS		1	6.0	7.25	28.0	30.0	Rubber	Lead covered and armoured.
NAVIGATION LIGHTS		1	1.5	1.0	6.5	45.0	"	- " -
LIGHTING <del>XXXXXXXXXX</del> (Aft)		1	1.5	2.0	6.5	14.0	"	Lead covered
11 Heater		1	6.0	13.0	28.0	12.0	"	Lead covered and armoured.

MOTOR CABLES.

ALL INTERMITTENT MOTORS TO BE EITHER "LED" OR "CUT"								
Windlass <i>Cut</i>	1	16	1	70.0	127.	124	110	Rubber Lead covered and armoured.
11 Separator	1	0.8	1	2.5	6.6	15.5	15	(Intermittent) Lead covered and armoured.

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