

30 AUG 1960

Rpt. 13.

No. 26079.

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 19/8 19 60 When handed in at Local Office 26/8 19 60 Port of Gothenburg

No. in Survey held at Åmål Date, First Survey 23/5 Last Survey 13/7 19 60

Reg. Book. (No. of Visits 8)

on the Car Ferry "R O S P I G G E N" Tons { Gross 345  
Net 108

Built at Åmål By whom built A-B. Åsi-Verken Yard No. 54 When built 1960

Owners Rederi Grisslehamn - Åland Port belonging to Grisslehamn

Installation fitted by Karl Frödén's Elektriska, Åmål When fitted 1960

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 Voltage of Lighting 220

Heating 220 Power 220 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 Yes

Are the generators arranged to run in parallel --- 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 --- Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Aux. generator - Forward

stbd. in Engine Room, Shaft driven generator - Adjacent to port forward main engine; Em. generator - In funnel

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 Main - Port side of engine

Room main engine level, Emergency - Aft end of saloon, upper deck.

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 rubber, 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 Double pole change-over switch with fuses.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Main switchboard - Double pole change-over switch with fuses. Emergency switchboard - Double pole switches with fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 2

ammeters 2 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 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 IPÖ, 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 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 2.2 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 Yes, if so, are they adequately protected Yes State

type of cables (if in conduit this should also be stated) in machinery spaces or wire braid, galleys Lead covered, wire braid.

and laundries --- State how the cables are supported or protected Mains, LC & A cables clipped to

girder and perforate plate Machinery space: LC & A cables clipped to perforated tray, Accomodation: LC, PVC sheathed

cables clipped to woodwork.

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  
8 kw. generator, also battery situated in compartment in funnel.

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..... 304..... Where required to do so does it comply with 1948 International Convention.....

ampere hours.....204..... Where required to be stated.....

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 \_\_\_\_\_, whether fixed or portable \_\_\_\_\_, are they of the carbon arc or of the filament type. \_\_\_\_\_

Heating and Cooking, is the general construction as per Rule Yes, are the frames effectually earthed. Yes, are heaters in the accommodation of the convection type. --- Motors, are all motors constructed and installed as per Rule and placed in well-ventilated

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. Yes

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 pumps, ---, made of brass or bronze, as required by 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.....

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

## PARTICULARS OF GENERATING PLANT.

PARTICULARS OF GENERATING SETS.							PRIME MOVER.	
DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				TYPE.	MAKER.
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.		
MAIN ... ..	1	Thrige	32	220	146	2000	M.E. shaft	Messrs. Daimler-Benz
	1	Thrige	23	220	104	2000	Diesel	Messrs. Lister
EMERGENCY ...	1	Thrige	8	220	36	2000	Diesel	Messrs. Lister
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.	B.H.P.							
Fire pumps	2	11.5	1	25	56	63	20	Rubber	LC, SWB
Windlass	1	10	1	25	39	63	42	"	" & tape arm.
Bilge pumps	2	6.5	1	10	27	38	18	"	" SWB
Hydraulic pump	1	5	1	6	20	29	12	"	" "
Engineroom vent. fan	1	2	1	2.5	8.5	15.5	20	"	" "
Hydrofore pumps	2	1	1	2.5	1.4	15.5	12	"	" "

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.

PRODENS ELEKTRISKA

KARL FREDÉN

*Karl Fredén*

11403-59

Electrical Contractors.

Date

22/8 1960

#### COMPASSES.

Have the compasses been adjusted under working conditions. Yes.

Aktiebolaget Asviken

Builder's Signature.

Date

25.8.60.

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. No If not, state date of approval. Got. 4th July, 1960.

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.)

This electrical equipment has been fitted in the ship under my inspection and to my satisfaction and has been tested and found to work satisfactorily.

The workmanship and material are good and the Rule requirements have been complied with.

#### Note:-

At the Builders' request survey was carried out by the undersigned on Tuesday the 12th July, 1960, between 20<sup>00</sup> - 21<sup>00</sup>.

Total Capacity of Generators 63 Kilowatts.

The amount of Fee ... Kr. 710:- : When applied for, 26/8 19 60

Spec. att. fee:- Kr. 70:-

Travelling Expenses (if any) £ --- : When received, --- 19 ---

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRIDAY 30 SEP 1960

Assigned

See Rpt. 1