

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 22/1 1958 When handed in at Local Office 19 Port of Stockholm  
 No. in Survey held at Stockholm Date, First Survey 9.8.57 Last Survey 13/12 1957  
 Reg. Book. (No. of Visits 22) Tons { Gross 2936  
41731 on the Single Screw Motorship "FREDRIKA" Net -  
 Built at Stockholm By whom built Messrs. A/B Finnboda Varv Yard No. 368 When built 1957  
 Owners Rederi A/B Fredrika Port belonging to Stockholm  
 Installation fitted by Messrs. A/B Marinmontage When fitted 1957  
 Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. No Radar Yes

Plans, have they been submitted and approved Yes System of Distribution Two Wire Voltage of Lighting 220  
 Heating - 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 Yes 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 Yes Have certificates of test for machines  
 under 100 kw. been supplied and the results found as per Rule Yes Position of Generators On port side in E.R.  
 Port forward inboard and outboard, port aft, harbour light gen. in deckhouse on shelterdeck  
 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 on a platform  
 in forward part of E.R.  
 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 panels of steel, 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 a triple pole circuit breaker with overload and reverse  
 current protection (the third pole for the equaliser) and a fuse on each pole  
 and the switch and fuse gear (or circuit breakers) for each outgoing circuit a double pole linked switch

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 6  
 ammeters 4 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 Yes Earth Testing, state means provided Yes  
 an ohm meter Preference Tripping, state if provided Yes, and tested Yes  
 Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes  
 make of fuses I.F.O. & N.E.S., are all fuses labelled Yes If circuit breakers are provided for the generators, at what  
 overload do they operate 600 A 10 sec., and at what current do the reverse current protective  
 devices operate 70 A 8 sec. Cables, are they insulated and protected xxxxxx Yes  
 if otherwise than as per Rule are they of an Approved Type Butyl, please see secretary's letter 2.9.55  
 under maximum load 6 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends None  
 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 F.D.O.M. (Butyl), galleys F.D.O.M. & F.D.K.L.  
 and laundries F.D.O.M. & F.D.K.L. State how the cables are supported or protected supported by metal clips,  
 laid on perforated plates, clipped to bulkheads, were necessary led in steel pipes or protected by steel  
 plates

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 Yes  
 Have refrigeration fan motors been constructed under survey Yes and test certificates supplied Yes  
 Are the motors accessible for maintenance at all times Yes



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

DESCRIPTION OF GENERATOR.		No. of	MAKER.	RATED AT			PRIME MOVER.		
				Kw. per Generator.	Volts.	Amps.	Rev. per Min.	TYPE.	MAKER.
MAIN	...	3	Thomas B. Thrige	130	220	590	600	Diesel	Ruston - Hornsby
	...								
	...								
EMERGENCY ROTARY TRANSFORMER	...	1	" "	32	220	139	1000	"	" "
	...								

[illegible][illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
From main switchboard to:									
Refr. cargo compr:s	3	42	2	50	155	198	24	Rubber	Butyl
" " fan	1	18	1	68	70	78	133	"	"
" " "	1	18	1	68	70	78	67	"	"
Lub. oil pump	2	35	1	95	130	150	52	"	"
Windlass	1	42	1	95	160	160	163	"	"
Spare blower for M.E.	1	45	2	50	168	198	53	"	"
Fuel oil transf. pump	1	10	1	16	40	46	46	"	"
F.W. & S.W. circ. pump M.E.	3	14	1	25	55	63	40	"	"
Ballast pump	1	14	1	25	54	63	22	"	"
Bilge & fire pump	1	10	1	16	40	49	30	"	"
Start. air compr.	2	32	1	70	120	99	60	"	"
Steering engine	1	15	1	16	48	49	100	"	"
" " "	1	15	7	16	48	49	120	"	"
Ward-Leonard converter, winches	2	41	2	50	272	240	120	"	"
" " " "	2	41	2	50	272	240	91	"	"
" " " "	2	41	2	50	272	240	12	"	"
From D.F.B. K 7 to:									
E.R. fans	2	5.3	1	4	21	22.5	16	"	"
From D.F.B. K 4 to:									
Circ. pump aux. diesel eng:s	2	5.5	1	4	22	22.5	40	"	"
" " refr. mchy.	2	4.0	1	4	16	22.5	10	"	"
From D.F.B. k 8 to:									
Cargo hold fan	3	2.5	1	2.5	9.7	15.5	150	"	"
" " fan	6	2.5	1	2.5	9.7	15.5	146	"	"
" " "	2	2.5	1	2.5	9.7	15.5	136	"	"
From D.F.B. K 3 to:									
Purifier	3	3.0	1	2.5	10.3	15.5	19	"	"
Oil heater	3	-	2	25	55	63	16	"	"
From aux. switchboard to:									
Fire pump in shaft tunnel	1	13.6	1	25	53	63	156	"	"
Fan in harbour light eng. room									
From D.F.B. K 2 to:									
Emerg. start air compr.	1	5	1	4	20	22.5	40	"	"

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*The foregoing is a correct description.*

Mr. de Kain-Montage A.B. Hellen  
A Wingard

### Electrical Contractors.

Date 15. 1. 58

## COMPASSES.

Have the compasses been adjusted under working conditions.

Yes

AKTIEBOLAGET FINNBODA VARE

ERIK OLIN

Builder's Signature.

Date 18-1-1958

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

Is this installation a duplicate of a previous case Yes If so, state name of vessel M/S "SVENSKSUND"

Plans. Are approved plans forwarded herewith No If not, state date of approval 13.12.56 & 18.1.57

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.).

General Remarks. (State quantity of work done.)

The electrical installation of this vessel has been installed under Special Survey in accordance with approved plans.

The workmanship and materials are good.

The installation has been tested under working condition and found in order.

*below the line* Total Capacity of Generators.....422.....Kilowatts.

The amount of Fee ... Kr. 1:740:- When applied for,

17/1 19 58

When received,

Travelling Expenses (if any) £

19.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute.

TUESDAY - 4 MAR 1958

*Assigned.*

See Rpt. 1.