

Rpt. 13.

No. 10908

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

31 JAN 1957

Date of writing Report 28/ 1957 When handed in at Local Office 19 Port of Stockholm
 No. in Survey held at Stockholm Date, First Survey 20.11 Last Survey 7.12 1956.
 Reg. Book. (No. of Visits 7)

90675 on the Single Screw Steel Trawler "SIMFEROPOL" Tons 685
 Gross 685
 Net 224

Built at Stockholm By whom built AB Finnboda Varf Yard No. 365 When built 1956

Owners U.S.S.R. Port belonging to Murmansk

Installation fitted by AB Marinmontage, Stockholm When fitted 1956

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 No

Plans, have they been submitted and approved Yes System of Distribution Two Wire Voltage of Lighting 115

Heating - Power 115 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 None Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators On a platform on starboard side in engine room

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 the same platform as the generators

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 the switch and fuse gear (or circuit breakers) for each outgoing circuit A double pole knife switch and a fuse on each pole

Are compartments containing switch boards 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 Yes Earth Testing, state means provided A voltmeter calibrated as ohm meter Preference Tripping, state if provided No, and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes make of fuses AEG & ASEA, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 190 A (10 sec.), and at what current do the reverse current protective devices operate 20 A (10 sec.) 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 3 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 No, if so, are they adequately protected - State

type of cables (if in conduit this should also be stated) in machinery spaces F.D.F.F., galleys F.D.F.F. and laundries F.D.F.F. State how the cables are supported or protected In machinery spaces on decks and in

holds:- Lead covered and steel braided, clipped to bulkheads or steel plates, where necessary led in steel pipes. In accommodation:- Lead covered or steel wire braided, clipped to bulkheads or 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 -

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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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes Emergency Supply, state position
In a well ventilated compartment on boat 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 120 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 Portable, are they of the carbon arc or of the filament type Filament

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 -

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 - 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 -

Lightning Conductors, where required are they fitted as per Rule Yes

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

E.S.D., if fitted state maker S.C.A.M. 419 (France) location of transmitter and receiver In boiler room

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.	Amperes.	Revs. per Min.	TYPE.	MAKER.
MAIN	2	E.S.A.B.	18	115	156.5	680	Steam	Atlas, Copenhagen
EMERGENCY ROTARY TRANSFORMER								

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 sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	1	18	1	120	157	175	22	Rubber	L.C. & Steel braided
" " EQUALISER	-	-	1	120		175	11	"	" " " "
" " "	1	18	1	120	157	175	16	"	" " " "
" " "	-	-	1	120		175	8	"	" " " "
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

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

DESCRIPTION.	No. of	Kw.	Sectional Area sq. mm.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return) in M.	INSULATION.	PROTECTIVE COVERING.
To power panel No. 1	1	95	160	150	102	Rubber	L.C. & Steel braided
" " " " 2	1	50	100	99	40	"	" " " "
" " " " 3	1	16	50	49	36	"	" " " "
" light " " 1	1	6	35	29	114	"	" " " "
" " " " 2	1	16	50	49	50	"	" " " "
" " " " 3	1	10	35	38	66	"	" " " "
" " " " 4	1	2.5	15	15.5	14	"	" " " "
" " " " 5	1	4	25	22.5	48	"	" " " "
" navigation lights	1	2.5	15	15.5	66	"	" " " "
" shore connection	1	120	200	175	24	"	" " " "
" radio	1	10	35	38	60	"	" " " "
" gyro	1	2.5	15	15.5	30	"	" " " "

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 sq. mm.	In the Circuit.	Rule.			
From DFB to navigation light starboard	1	1.5	4.0	9.5	8	Rubber	L.C. & Steel braided
" " " " " port	1	1.5	4.0	9.5	14	"	" " " "
" " " " " top forward	1	1.5	4.0	9.5	112	"	" " " "
" " " " " aft	1	1.5	4.0	9.5	120	"	" " " "
" " " " " lighting on deck aft	1	1.5	4.0	9.5	110	"	" " " "
" " " " " forward	1	1.5	5.0	9.5	106	"	" " " "
" " " " " in Eng. & blr. room	1	1.5	6.0	9.5	15	"	" " " "
" " " " " acc.	1	1.5	4.0	9.5	14	"	L.C.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	Sectional Area sq. mm.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return) in M.	INSULATION.	PROTECTIVE COVERING.
Rectifier 115 V D.C.							
to 220 V A.C.	1	1.4	1	2.5	10	15.5	14 Rubber L.C. & Steel braided
S.A.L. log rectifier	1	-	1	1.5	6	9.5	24 " " " "
Wireless rectifier	1	-	1	6	-	29	22 " " " "
Purifier in eng. room	1	0.4	1	1.5	4	9.5	30 " " " "

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.

Ing. J. Haim-Montage A.B. C. Wingård Electrical Contractors. Date 18.1.57

COMPASSES.

Have the compasses been adjusted under working conditions Yes

AKTIEBOLAGET FINNRODA VARF
ERIK OLIN

Builder's Signature.

Date 21.1.1957.

gm.

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

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 1.12.54.

Certificates. Are certificates of test for ~~motors engaged on essential services and~~ generators forwarded herewith Yes

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.) The electric equipment of this vessel has been installed under Special Survey, the workmanship and materials are good. The installation has been tested and adjusted under working conditions, insulation resistance measured and found good.

Certificates in respect of generators are attached herewith.

Total Capacity of Generators 36 Kilowatts.

The amount of Fee ... Er. 590:-- :

When applied for,

38/ 1957

When received,

19

Travelling Expenses (if any) £ : :

M. Lund
Surveyor to Lloyd's Register of Shipping.

FRIDAY 1st MAR 1957

Committee's Minute

Assigned Su Rpt. 1