

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

No. 14467

18 NOV 1953

Report 19. When handed in at Local Office 19. Port of Copenhagen
 Survey held at Nakskov Date, First Survey 1/9/53 Last Survey 23rd Oct 1953
 (No. of Visits 5)
 on the steel screw M/V "Margit" Tons { Gross 4967
Nakskov By whom built A/S Nakskov Skibsværft Yard No. 133 When built 1953
Dampskibsselskabet "Myren" Port belonging to Copenhagen
 fitted by A/S Nakskov Skibsværft When fitted 1953
 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
 e they been submitted and approved Yes System of Distribution Two wire insulated Voltage of Lighting 220
220 Power 220 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency —
 ers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted
 switch — Generators, are they compound wound Yes, and level compounded under working conditions Yes
Yes, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole
 Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing Yes Have certificates of
 machines under 100 kw. been supplied Yes and the results found as per Rule Yes
 the Generators Motor Room Floor Level, 2@ Port side, 1@ starboard side, Harbour generator at port side
 ilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and
 om water, steam and oil Yes Switchboards, where are main switchboards placed Motor Room Ford at the
Level
 accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,
 oil Yes, what insulation is used for the panels Dead front type with Sindanoye if of synthetic insulating
 it an Approved Type Yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as
 Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear
 merator and arrangement of equaliser switches A three pole circuit breaker with overload and
current trips
 itch and fuse gear (or circuit breakers) for each outgoing circuit Two pole locked switches with a fuse in
pole. Ford deck winches a 2 pole 500amp circuit breaker
 rtments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 6
3 voltmeters — synchronising devices. For compound machines in parallel are the ammeters and reversed current
 devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided —
 eter and two earth lamps
 Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes
 ses L.K. MEK. ETABL, COPENHAGEN are all fuses labelled Yes If circuit breakers are provided for the generators, at what
 o they operate 750 amps., and at what current do the reversed protective devices operate 5k amps.
 s, Section Boards and Distribution Boards, is the construction as per Rule Yes
 they insulated and protected as per Rule Yes, if otherwise than as per Rule are they of an Approved Type —
 mum fall of pressure between bus bars and any point under maximum load Abt. 5 amps are the ends of all cables having a sectional
 1 square inch and above provided with soldering sockets Yes Are all paper insulated and varnished cambric insulated
 ed at the ends — Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil,
 ratures or risk of mechanical damage Yes, are any cables laid under machines or floorplates No, if so, are they
 protected — Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit No
 HR" type No State how the cables are supported or protected The cables are laid on steel
and adequately protected by steel covers in way of cargo holds, with
spaced as per Rules
 d sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight
 provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes
 s Register of bushes Yes Refrigerated chambers, are the cables and fittings as per Rule Yes

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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 Motor room, port side

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 Alarm Is an alternative supply provided Yes

Secondary Batteries, are they constructed and fitted as per Rule Yes, are they adequately ventilated Yes

state battery capacity in ampere hours Yes

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes

Are any fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present No

if so, how are they protected Yes

and where are the controlling switches fitted Yes Are all fittings suitably ventilated Yes

Searchlight Lamps, No. of 2, 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 Yes, are the frames effectually earthed Yes, are heaters in the accommodation of the convection type Yes 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 Yes

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

Control Gear and Resistances, are they constructed and fitted as per Rule Yes Lightning Conductors, where required are they fitted as per Rule Yes Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with Yes, are all fuses of an Approved Cartridge Type Yes, make of fuse Yes Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships Yes Are the cables lead covered as per Rule Yes

E.S.D., if fitted state maker Helvin Hughes location of transmitter Double bottom between frames 121-122 and receiver Bridge house

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.	
			Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	3	T.B. Frige Olense	160	220	728	500	Oil engine	A/S Buemister & Wain.
HARBOUR EMERGENCY ROTARY TRANSFORMER	1	General Motors Dayton U.S.A.	30	220	136	1200	Oil engine	General Motors, Dayton U.S.A.

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ...	160	3	3x240	728	825	30	V.R.	Lead covered & Wire armoured.
" " EQUALISER ...			2x185			30	V.R.	"
EMERGENCY GENERATOR ...	30	1	95	136	150	10	V.R.	Lead covered & Wire armoured.
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR...								

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.								Lead Covered & Wire armoured.
Emergency Generator Switchboard	1	185	200	235	✓ 30	V.R.		
Main Light	"	1	120	150	175	36	"	"
Steering Gear	" (2 Leads.)	1	50	59	99	✓ 30	"	"
Bilge Pump & Ballast Pump	"	1	70	100	125	✓ 30	"	"
Aux. Cooling Pumps.	"	1	50	70	99	✓ 30	"	"
Workshop	"	1	50	70	99	✓ 40	"	"
Fuel Oil	"	1	95	130	150	✓ 10+24	"	"
Crane	"	1	10	26	38	✓ 40	"	"
Galley	"	1	150	175	205	✓ 40	"	"
Winches (Aft)	"	1	185	225	235	✓ 60	"	"
" (Midship)	"	1	120	163	175	✓ 60	"	"
" (Fore)	"	1	310	317	323	✓ 100	"	"

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. sq. mm.	In the Circuit.	Rule.			
Ventilation (Aft).	1	4	10	22.5	90	V.R.	Lead covered & Wire armoured.
Refrigeration.	1	50	80	99	20	"	"
Boiler.	1	25	50	63	22	"	"
Hydrofor.	1	10	34	38	20	"	"
Ventilation (Midships).	1	4	15	22.5	40	"	"
" (Saloon House).	1	6	15	29	40	"	"
Fire Extinguishing.	1	4	14	22.5	20	"	"
Deckhouse (Fore) Lighting.	1	6	20	29	90	"	"
Motor Room	1	10	25	38	30	"	"
Deckhouse (Aft)	1	10	30	38	50	"	"
Engine Officers	1	10	30	38	20	"	"
Saloonhouse etc	1	16	30	49	60	"	"
Navigation	1	2.5	5	15.5	70	"	"
Wireless.	1	10	15	38	70	"	"
Radar & Gyro Compass.	1	25	32	63	60	"	"

All other sub-circuits wired in accordance with the rules.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Steering gear motors	2	15	1	35	59	78	100	V.R.	Lead covered & Wire armoured.
Turning gear.	1	18	1	50	70	99	30	V.R.	"
Cooling water pumps	3	22	1	70	84	125	40	"	"
Lubricating Oil pumps	2	58	1	185	217	235	36	"	"
Bilge & Fire pump	1	23	1	50	88	99	30	"	"
Air compressor	3	58	1	185	217	235	30	"	"
Large oil pump	1	40	1	95	150	150	20	"	"
Ballast pump	1	18	1	50	70	99	30	"	"
Bilge & Sanitary pump	1	9	1	16	36	49	32	"	"
Cooling pumps for aux. engs.	2	9.5	1	16	38	49	32	"	"
Fans for Motor Room	2	4.5	1	4	19	22.5	40	"	"
Fuel & Lub Oil Purifiers	3	3.8	1	2.5	14	15.5	6	"	"
Fuel Oil pumps	2	1	1	2.5	5	15.5	8	"	"
Fuel Oil Transfer Pump	1	15	1	25	59	15.5	4	"	"
Fuel Oil circulating pumps.	2	1.8	1	2.5	9	15.5	20	"	"
Winches (Aft)	5	33	1	70	125	125	14	"	"
" (Midships)	2	33	1	70	125	125	12	"	"
" (Fore)	4	33	1	70	125	125	14	"	"
Windlass	1	58	1	185	217	235	40	"	"
Boiler Fan	1	2	1	2.5	9	15.5	6	"	"
Emergency Air compressor	1	3	1	2.5	13	15.5	10	"	"

All other motors wired in accordance with the rules.



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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.

AKTIESELSKABET
NAKSKOV SKIBSVÆRFT

Electrical Contractors.

Date

COMPASSES.

Have the compasses been adjusted under working conditions.

Yes

AKTIESELSKABET
NAKSKOV SKIBSVÆRFT

Builder's Signature.

Date

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.

Yes

If not, state date of approval.

✓

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

Yes.

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electric installation has been made under Special Survey in accordance with the Rules, the Approved Plans, and the Secretary's letter.

The material used is in accordance with the requirements of the Rules, and the workmanship is good.

On completion the whole installation was examined under full power working conditions, and found in efficient condition.

Noted 98

30/11/53

Total Capacity of Generators 510 ✓ Kilowatts.

The amount of Fee ...

Kr. 2370⁰⁰

When applied for,

16/11 19.53

When received,

19.

Travelling Expenses (if any)

Kr. 25⁰⁰

Surveyor to Lloyd's Register of Shipping.

FRIDAY - 4 DEC 1953

Committee's Minute

Assigned

See minute on

hull & etc.



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