

Rpt. 13.

No. 6166.

Report on Electrical Equipment.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

9 JUL 1948

Date of writing Report 10-6-48. When handed in at Local Office 6-7-48. Port of Oslo. Received at London Office.....

Survey held at Trondheim. Date, First Survey 9-7-47. Last Survey 19-4-1948. No. in Reg. Book 16969. (Number of Visits 5)

on the M.V. "UDDU" ex. M.M.S. 1013. Tons {Gross 313, Net 109}

Built at Peterhead. By whom built Geo. Forbes & Co. (Peterhead) Ltd. Yard No. - When built 1943.

Owners Skips A/S Sempe. Port belonging to Trondheim.

Electrical Installation fitted by O. Lund-Johansen. Contract No. - When fitted 1948.

Is vessel fitted for carrying Petroleum in bulk. No. Is vessel equipped with D. F. No. E. S. D. No. Gy. C. No. Sub. Sig. No.

Have plans been submitted and approved yes. System of Distribution 2-wire. Voltage of supply for Lighting 220.

Heating 220. Power 220. Direct or Alternating Current, Lighting. Power. If Alternating Current state frequency. Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off. Are turbine emergency governors fitted with a

trip switch as per Rule. Generators, are they compound wound yes. are they level compounded under working conditions yes.

if not compound wound state distance between generators. and from switchboard. Where more than one generator is fitted are they

arranged to run in parallel. No. are shunt field regulators provided yes. Is the compound winding connected to the negative or positive pole

negative. Have machines over 100 kw. 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. Are the lubricating arrangements and the construction

of the generators as per rule yes. Position of Generators 1-starboard & 1-port placed in

engine room. is the ventilation in way of generators satisfactory yes. are they clear of inflammable material yes. if situated

near unprotected combustible material state distance from same horizontally. and vertically. are the generators protected from mechanical

injury and damage from water, steam and oil yes. are the bedplates and frames earthed yes. and the prime movers and generators in metallic

contact yes. Switchboards, where are main switchboards placed in engine room.

are they in accessible positions, free from inflammable gases and acid fumes yes. are they protected from mechanical injury and damage from water, steam

and oil yes. if situated near unprotected combustible material state distance from same horizontally. and vertically. what insulation

material is used for the panels Sindango. 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 frame effectually earthed yes.

Is the construction as per Rule yes. including accessibility of parts yes. absence of fuses on the back of the board yes. individual fuses

to pilot and earth lamps, voltmeters, etc. yes. locking of screws and nuts yes. labelling of apparatus and fuses yes. fuses on the dead

side of switches. Description of Main Switchgear for each generator and arrangement of equaliser switches. A double pole switch and

fuses on each pole. See Oslo letter of the 12th April and Secretary's reply of the 14th

April reference E.

and for each outgoing circuit double pole switch and 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 is the ammeter connected on the pole opposite to the

equaliser connection. Earth Testing, state means provided yes.

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	54	220	235	1600.	Diesel. L. Gardner & Sons.	Kerosene.	-
	1	25	220	115	1000.	" " R. A. Lister	" "	-
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION	KILOWATTS	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return feet).	INSULA- TED WITH	HOW PROTECTED.
		No. in Parallel Per Pole	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit	Rule			
MAIN GENERATOR								
" " EQUALISER								
	54	1	2x95mm. ² ~ 90			50	rubber	Armoured, lead covered
	25	1	2x70 " ~ 90			18	- -	Lead covered
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

AUX. SWITCHBOARDS AND SECTION BOARDS...								
Lighting foreship.	1	4 m.m ²	~ 6 ✓	22.5	~ 150	rubber	in pipes.	
" - midships.	1	35 "	~ 15 ✓	78	~ 12	"		
Navigation lights.	1	4 "	~ 1 ✓	22.5	~ 20	"		

WIRELESS								
NAVIGATION LIGHTS	1	1.5 m. m ²	1	✓	9.5	~1.50	"	
LIGHTING AND HEATING	1	1.5 "	6	✓	9.5	-	"	
oil heater	1	13.5 "	13.5			35	"	in pipes.
		2x6 boiler	29m	✓				
			Plan					

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.

..... *Ø. Lund-Johansen* Electrical Engineers. Date *2-6-48*.....
(sign)

COMPASSES.

Minimum distance between electric generators or motors and standard compass *ab. 25'*

Minimum distance between electric generators or motors and steering compass *ab. 18'*

The nearest cables to the compasses are as follows:—

A cable carrying Ampères feet from standard compass feet from steering compass. } *Electric light*
A cable carrying Ampères feet from standard compass feet from steering compass. } *in wheel house.*
A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power *with*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *yes*

The maximum deviation due to electric currents was found to be degrees on course in the case of the
standard compass, and degrees on course in the case of the steering compass.

..... Builder's Signature. Date

Is this installation a duplicate of a previous case If so, state name of vessel

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

The quality of workmanship and materials are good and insulation tests made throughout and the installation maintained under working conditions and found in good working order.

The original installation of M.V.S. 1013 has been retained as far as practicable and together with the necessary renewals fitted in accordance with plan approved 10th March 1948 and the Secretary's letter concerning same, with exception of amendments respecting the 54 Kw. generator cables and the switch on the main switchboard which, as a temporary measure, have been arranged as per Oslo letter of the 12th April last and the Secretary's letter E dated 14th April last.

It is recommended that this installation be classed in the Register Book.

Total Capacity of Generators *79* Kilowatts.

The amount of Fee Kr. *160.00.* { When applied for, *18/5 19.48*
Travelling Expenses (if any) Kr. *✓* { When received
2nd Surveyor fee charged on mch. rpt.

Committee's Minute
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Sørensen
Surveyor to Lloyd's Register of Shipping

FRI. 26 NOV 1948



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Foundation