

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report... 28.5.1946 When handed in at Local Office... 3. June 1946 Port of... Sunderland

No. in Survey held at... Sunderland. Date, First Survey... 3.4.46 Last Survey... 23.5.1946
Reg. Book. 37886 on the S.S. "GALEOMMA"

Built at... Sunderland. By whom built... J. L. Thompson & Sons Ltd. Yard No. 643 When built... 1946
Owners... N.V. Gemaal- en Scheepvaart, Maatschappij Port belonging to... The Hague Holland.

Electrical Installation fitted by... Sunderland Forge & Ltd. Contract No. 643 When fitted... 1946

Is vessel fitted for carrying Petroleum in bulk... 44. Is vessel equipped with D.F. No. E.S.D. No. Gy.C. No. Sub.Sig. No.

Have plans been submitted and approved... 44. System of Distribution... Two-Wire insulated Voltage of supply for Lighting... 110

Heating... Power... 110 Direct or Alternating Current, Lighting... 44 Power... 44 If Alternating Current state periodicity... Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off... 44 Are turbine emergency governors fitted with a

trip switch as per Rule... Generators, are they compound wound... 44, are they level compounded under working conditions... 44,

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... 44, are shunt field regulators provided... 44 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... 44 and the results found as per rule... 44 Are the lubricating arrangements and the construction

of the generators as per rule... 44 Position of Generators... engine room situated on raised strops

is the ventilation in way of generators satisfactory... 44 are they clear of inflammable material... 44, 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... 44, are the bedplates and frames earthed... 44 and the prime movers and generators in metallic

contact... 44 Switchboards, where are main switchboards placed... on angle iron frame near generators

are they in accessible positions, free from inflammable gases and acid fumes... 44, are they protected from mechanical injury and damage from water, steam

and oil... 44, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation

material is used for the panels... 44 "Hindenburg" if of synthetic insulating material is it an Approved Type... 44, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed... 44

Is the construction as per Rule... 44, including accessibility of parts... 44, absence of fuses on the back of the board... 44, individual fuses

to pilot and earth lamps, voltmeters, etc... 44 locking of screws and nuts... 44, labelling of apparatus and fuses... 44, fuses on the "dead"

side of switches... 44 Description of Main Switchgear for each generator and arrangement of equaliser switches... 2 double-pole single

throw quick-break knife switch and double-pole fuses.

and for each outgoing circuit... 2 double-pole, double-throw quick-break knife switch and double-pole fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... 44 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... E lamps coupled to E through two fuses.

Switches, Circuit Breakers and Fuses, are they as per Rule... 44, are the fuses an approved type... 44, are all fuses labelled as

per Rule... 44 If circuit breakers are provided for the generators, at what overload current did they open when tested... are the reversed current

protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current

did they operate... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... 44

Cables, are they insulated and protected as per the appropriate Tables of the Rules... 44, 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... 0.01

square inch and above provided with soldering sockets... 44 Are paper insulated and varnished cambric insulated cables sealed at the ends... 44

PARTICULARS OF GENERATING PLANT.							
DESCRIPTION OF GENERATOR.	No. of	RATED AT			Revs. per Min.	DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.
		Kilowatts.	Volts.	Amps.			Fuel Used.
MAIN ...	2 ✓	25 ✓	110 ✓	228	675 ✓	Simple Cylinder Vertical Steam Engines	
EMERGENCY ...							
ROTARY TRANSFORMER							

[illegible]

WIRELESS	NAVIGATION LIGHTS	LIGHTING AND HEATING	Bridge Itg. DB-D-1 - Kp. S-1.	Thickship Quarr. Port. D-2.	" " Starb. D-3.	Gen. Aft. Lighting Port. D-4.	" " Starb. D-5.	Large Itg. Aft. D-6.	Engine & Boiler Room Itg. D-7A.	" " " D-7B.	Port. Large Itg. D-9.	None Connection
1	1		1	1	1	1	1	1	1	1	1	1
7/029.	7/044		7/044	7/044	7/044	7/044	7/044	7/044	7/044	7/044	7/044	37/042
12	6		12	16	18	15	16	5	10	12	14.3	-
15	10		31	31	31	75	75	10	75	75	31	346
250	120		90	60	36	68	192	80	100	100	26	168
V.I.R.	"		V.I.R.	"	"	V.C.	"	V.I.R.	V.C.	"	V.I.R.	V.C.
L.C.	"		L.C.	"	"	"	"	"	" A.T.B.	"	L.C.A.B.	"

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Engine Room Vent Fan P.	1	4	1	7/052	33	37	120	V.I.H	L.C.F.B.
" " S.	1	4	1	7/052	33	37	50	"	"
Thermostat Vent Fan Midsp.	1	3	1	7/044	29.3	31	120	"	"
" " G.R.	1	3	1	7/044	32.5	31	122	"	"

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.

P. PRO THE SUNDERLAND FORGE & ENGINEERING CO., LTD.
Electrical Engineers.

Date 29/5/46.

H. Liffon

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass.....

The nearest cables to the compasses are as follows:—

A cable carrying 15 Ampères 8 feet from standard compass on the feet from steering compass.

A cable carrying 15 Ampères on the feet from standard compass 8 feet from steering compass.

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 Yes

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 7 1/2 degrees on every course in the case of the

standard compass, and 7 1/2 degrees on every course in the case of the steering compass.

JOSEPH L. LIFFON & SONS, LIMITED.

Builder's Signature.

Date 1-6-46.

JOINT MANAGING DIRECTOR

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 5.12.11.45; D. 14-1-46

Certificates. Are certificates of test for motors engaged on essential 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 electrical equipment of this vessel has been installed under special survey in accordance with the approved plans and amendments thereto: The materials used are of good quality and design and the workmanship is good: upon completion the equipment was operated on load with satisfactory results, and the insulation resistance of all circuits was measured and found good: This equipment is in my opinion suitable for a classed vessel.

Total Capacity of Generators (2x25) 50 Kilowatts.

The amount of Fee ... £27. 10. 0. When applied for, 4 JUN 1946

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

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 5 JUL 1946

Assigned. See F.E. mackay. rph.

5m.4.30.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



© 2021

Lloyd's Register
Foundation