

Rpt. 13.

No. 16566

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

25 OCT 1947

Received at London Office.....

Date of writing Report... 27/9/47 When handed in at Local Office... 27/9/47 Port of... GENOA

No. in Survey held at... GENOA Date, First Survey... 25/8/47 Last Survey... 24/9/47
Reg. Book. SUP (Number of Visits... 3...)85802 on the TWEEN SC. M/S. ARIETE (EX REAL II-47) Tons { Gross... 1069
Net... 2744

Built at... GÖTEBORGS By whom built... M.V. ANTIER GÖTEBORGS Yard No. ✓ When built... 1915

Owners... TRANSOCEANICA ITALIANA ESPORT. Port belonging to... ROMA

Electrical Installation fitted by... M.V. ANTIER GÖTEBORGS Contract No. ✓ When fitted... 1915

Is vessel fitted for carrying Petroleum in bulk... YES 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 2 CONDUCTOR. Voltage of supply for Lighting... 110

Heating... NONE Power... 110 Direct or Alternating Current, Lighting... DIRECT Power... DIRECT 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... YES Are turbine emergency governors fitted with a

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

if not compound wound state distance between generators... 15 MET. and from switchboard... 5. 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

✓ 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... ONE EN. R. CENTRE FORWARD, ONE PORT CENTRE IN EN. R.

ONE PORT AFT. ONE IN TWEEN DECK. 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 AFT ON

STARBOARD.

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... MARBLE 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... YES. 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... LAMPS locking of screws and nuts... YES. labelling of apparatus and fuses... YES. fuses on the "dead"

side of switches... NO Description of Main Switchgear for each generator and arrangement of equaliser switches... DOUBLE POLE

CIRCUIT BREAKER - WITH OIL GENERATOR COMMUTATION

AND DOUBLE POLE SWITCHES.

and for each outgoing circuit... DOUBLE POLE CIRCUIT BREAKER.

OR SWITCH AND FUSES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... ✓ Instruments on main switchboard... 4

ammeters... 4 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... 2 LAMPS

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

per Rule... YES. 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... YES

Cables, are they insulated and protected as per the appropriate Tables of the Rules... YES. if otherwise than as per Rule are they of an approved type... 2%

state maximum fall of pressure between bus bars and any point under maximum load... are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... YES. Are paper insulated and varnished cambric insulated cables sealed at the ends... 012966-012982-02912

supported and protected BY METAL CLIPS OR IN STEEL PIPES

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands.....YES....., where unarmoured cables pass through

the groups of lights in the engine and boiler rooms arranged as per Rule. YES Emergency Supply, state position. —

double pole switches.....YES..... and fuses.....YES..... Are the switches and fuses in a position accessible only to the officers on watch.....YES....., is an

what is the battery capacity in ampère hours.....

installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present. YES, if so, how are they protected. IN

and where are the controlling switches fitted ON DECK. are all fittings suitably ventilated YES

..... are their fittings as per Rule..... Heating and Cooking, is the general construction as per Rule.....

installed as per Rule YES and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water.

motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment.....YES.....

100 BHP intended for essential services been supplied and the results found as per Rule.....No..... Control Gear and Resistances, are they constructed and

less than 150° F. Have all the special requirements of the Rules for such ships been complied with YES, are all fuses of the cartridge type YES

ships.....**YES**..... Are the cables lead covered as per Rule.....**YES**..... Spare Gear, if the vessel is for open sea service have spares been provided as per

and found satisfactory.....**YES**.....

ATED AT

MAIN
1	24	110	218	425	DIESEL ENGINE	HAVY OIL	180°F
1	18	110	163	550	" "	"	"
1	18	110	163	550	STEAM ENGINE	—	—
1	18	110	163	450	MAIN ENGINE INT. SHAFT	—	—

CONDUCTORS.	MAX.
1. 1880-1881	1880-1881
2. 1881-1882	1881-1882
3. 1882-1883	1882-1883
4. 1883-1884	1883-1884
5. 1884-1885	1884-1885
6. 1885-1886	1885-1886
7. 1886-1887	1886-1887
8. 1887-1888	1887-1888
9. 1888-1889	1888-1889
10. 1889-1890	1889-1890
11. 1890-1891	1890-1891
12. 1891-1892	1891-1892
13. 1892-1893	1892-1893
14. 1893-1894	1893-1894
15. 1894-1895	1894-1895
16. 1895-1896	1895-1896
17. 1896-1897	1896-1897
18. 1897-1898	1897-1898
19. 1898-1899	1898-1899
20. 1899-1900	1899-1900
21. 1900-1901	1900-1901
22. 1901-1902	1901-1902
23. 1902-1903	1902-1903
24. 1903-1904	1903-1904
25. 1904-1905	1904-1905
26. 1905-1906	1905-1906
27. 1906-1907	1906-1907
28. 1907-1908	1907-1908
29. 1908-1909	1908-1909
30. 1909-1910	1909-1910
31. 1910-1911	1910-1911
32. 1911-1912	1911-1912
33. 1912-1913	1912-1913
34. 1913-1914	1913-1914
35. 1914-1915	1914-1915
36. 1915-1916	1915-1916
37. 1916-1917	1916-1917
38. 1917-1918	1917-1918
39. 1918-1919	1918-1919
40. 1919-1920	1919-1920
41. 1920-1921	1920-1921
42. 1921-1922	1921-1922
43. 1922-1923	1922-1923
44. 1923-1924	1923-1924
45. 1924-1925	1924-1925
46. 1925-1926	1925-1926
47. 1926-1927	1926-1927
48. 1927-1928	1927-1928
49. 1928-1929	1928-1929
50. 1929-1930	1929-1930
51. 1930-1931	1930-1931
52. 1931-1932	1931-1932
53. 1932-1933	1932-1933
54. 1933-1934	1933-1934
55. 1934-1935	1934-1935
56. 1935-1936	1935-1936
57. 1936-1937	1936-1937
58. 1937-1938	1937-1938
59. 1938-1939	1938-1939
60. 1939-1940	1939-1940
61. 1940-1941	1940-1941
62. 1941-1942	1941-1942
63. 1942-1943	1942-1943
64. 1943-1944	1943-1944
65. 1944-1945	1944-1945
66. 1945-1946	1945-1946
67. 1946-1947	1946-1947
68. 1947-1948	1947-1948
69. 1948-1949	1948-1949
70. 1949-1950	1949-1950
71. 1950-1951	1950-1951
72. 1951-1952	1951-1952
73. 1952-1953	1952-1953
74. 1953-1954	1953-1954
75. 1954-1955	1954-1955
76. 1955-1956	1955-1956
77. 1956-1957	1956-1957
78. 1957-1958	1957-1958
79. 1958-1959	1958-1959
80. 1959-1960	1959-1960
81. 1960-1961	1960-1961
82. 1961-1962	1961-1962
83. 1962-1963	1962-1963
84. 1963-1964	1963-1964
85. 1964-1965	1964-1965
86. 1965-1966	1965-1966
87. 1966-1967	1966-1967
88. 1967-1968	1967-1968
89. 1968-1969	1968-1969
90. 1969-1970	1969-1970
91. 1970-1971	1970-1971
92. 1971-1972	1971-1972
93. 1972-1973	1972-1973
94. 1973-1974	1973-1974
95. 1974-1975	1974-1975
96. 1975-1976	1975-1976
97. 1976-1977	1976-1977
98. 1977-1978	1977-1978
99. 1978-1979	1978-1979
10	

		Sq. ins. or sq. mm.		Current.		METER		
MAIN GENERATOR	...	24	1	195	218	240	46	RUBBER LEAD WITH STEEL WIRE
"	"	18	1	120	163	190	24	BRAIDING.
"	"	18	1	120	163	190	16	"
"	"	18	1	130	163	190	60	"
		—	—	—				
		—	—	—				
EMERGENCY GENERATOR	...	—	—	—				
ROTARY TRANSFORMER: MOTOR	...	—	—	—				
"	"	—	—	—				
	GENERATOR	—	—	—				

CONDUCTORS.	MAXIMUM C
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AUX. SWITCHBOARDS AND SECTION BOARDS ...								
"	"	GENERAL LIGHTING	1	13.3	21	40	135	ROOPER LEAD & STEEL WIRE
"	"	ENGINE ROOM LIGHTING	1	5.6	13	27	4	BRAIDED

	1	2	5	22
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LIGHTING AND HEATING							
"	FORWARD (CABIN ETC)	1	3	6.9	15	80	"
"	BOILER ROOM.	1	2	2	10	18	"
"	ENGINE STORES	1	9	28.8	35	40	"
"	AFT (CABIN ETC)	1	8.4	10.9	33	30	"

ONE AUX. PUMP	1	1.1	1	4.5	9	24	70	4	4
OIL FUEL SEPARATOR	1	2	1	7.91	16	35	60	4	4
LUB. OIL PUMP	1	1.5	1	6.65	13	31	30	4	4
SMALL REFRIG. ENGINE	1	3	1	10.38	24	40	15	4	4
AUX. COMPRESSOR	1	1.6	1	6.65	14	31	35	4	4
ONE AIR EXTRACTOR	1	1.3	1	6.65	11	31	32	4	4
ONE UNIVERSAL LATHE	1	2	1	7.91	16	35	70	4	4

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.

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass

28 Mt.

Minimum distance between electric generators or motors and steering compass

26 Mt.

The nearest cables to the compasses are as follows:—

A cable carrying 8 Ampères 40W. feet from standard compass 10 feet from steering compass.

A cable carrying ✓ Ampères ✓ feet from standard compass ✓ 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 No

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 No If so, state name of vessel ✓

Plans. Are approved plans forwarded herewith. HERewith ENCLOSED. If not, state date of approval ✓

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

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

The Electric Equipment has been made in accordance with the Rules, and plan herewith enclosed for approval. All the electrical machines have been tested in full working condition and all controls, governor have been satisfactory tested and Megger test carried out satisfactory. Main switch closed and the full installation repaired as necessary now good.

Note. sub. 9/12/47

Total Capacity of Generators 78. ✓ Kilowatts.

The amount of Fee ... L12 40,000. = 20/10/19.47
CAR EXPS. FUND " 800. =
OFFICE Travelling Expenses (if any) " 1,200. =
REVENUE TAX " 1,260. =

When applied for,

When received,

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 27 FEB 1948

see minute on Rpt 809



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