

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 2nd August 42 When handed in at Local Office 19 Port of Portland, Maine (New York) U.S.A.

No. in Survey held at So. Portland, Maine Date, First Survey 12th April Last Survey 22nd July 1942  
Reg. Book. (Number of Visits) Continuous

on the "OCEAN WANDERER" Tons { Gross 7178  
Net 4280

Built at So. Portland, Maine By whom built Todd-Bath Iron S.B. Corp Yard No. 14 When built 1942-7

Owners British Ministry of War Transport Port belonging to London

Electrical Installation fitted by Todd-Bath Iron Shipbuilding Corporation Contract No. 14 When fitted 1942

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

Have plans been submitted and approved Yes System of Distribution 2 Wire D. C. Voltage of supply for Lighting 110 V

Heating None Power None Direct or Alternating Current, Lighting D.C. Power x If Alternating Current state periodicity x 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 x Generators, are they compound wound Yes ✓, are they level compounded under working conditions Yes,

if not compound wound state distance between generators x and from switchboard x 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 none Have certificates of

test for machines under 100 kw. been supplied x Yes but no temperature tests and the results found as per rule x Are the lubricating arrangements and the construction

of the generators as per rule yes Position of Generators Star. E. R. Lower Platform

, 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 x and vertically 7 ft., 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 Star. E. R. Lower Platform.

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 x and vertically 7 ft., what insulation

material is used for the panels Ebony Asbestos, 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 x 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 yes Description of Main Switchgear for each generator and arrangement of equaliser switches

Double Pole Switches and Double Pole Fuses.

and for each outgoing circuit D. P. Switches 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 x synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection x Earth Testing, state means provided Earth lamp and voltmeters.

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 x If circuit breakers are provided for the generators, at what overload current did they open when tested x, are the reversed current

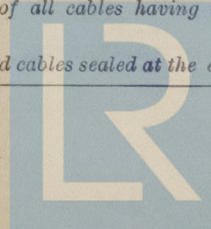
protection devices connected on the pole opposite to the equaliser connection x, have they been tested under working conditions, and at what current

did they operate x 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 x,

state maximum fall of pressure between bus bars and any point under maximum load 2.8 V, 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 none



Rule, yes, are they suitably stored in dry situations. yes. Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory. yes.

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 ...	2	15	110	136	450	Steam Engine	x	
EMERGENCY ...	none							
ROTARY TRANSFORMER	none							

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Feds.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... ..	15 each	1	168000	136.	139.	40'	V.I.B.	L.C.A.
" " EQUALISER ... ..								
.....								
.....								
.....								
EMERGENCY GENERATOR ... ..	X							
ROTARY TRANSFORMER: MOTOR ... ..	X							
" " GENERATOR ... ..	X							

[illegible][illegible][illegible]

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.

J. L. Trott  
TODD-BATH IRON SHIPBUILDING CORP.

Electrical Engineers.

Date 8/15/42

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 10 feet (Wireless Transformer)

Minimum distance between electric generators or motors and steering compass 6 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 2.15 Ampères 10 feet from standard compass 6 feet from steering compass.

A cable carrying .43 Ampères 3 feet from standard compass 3 feet from steering compass.

A cable carrying .43 Ampères 3 feet from standard compass 3 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 2 degrees on South East course in the case of the standard compass, and 1 degrees on South West course in the case of the steering compass.

Paul S. Kijgaard  
TODD-BATH IRON SHIPBUILDING CORP.

Builder's Signature.

Date 8/10/42

Is this installation a duplicate of a previous case yes If so, state name of vessel "OCEAN LIBERTY" "FREEDOM" "PEACE" Etc.

Plans. Are approved plans forwarded herewith No If not, state date of approval 5th May, 1941

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 Electrical Installation of this vessel has been fitted in accordance with the Rules and approved plans. The materials and workmanship are good and the whole has been tested as required by the Rules with good results.

Notice  
24  
16/9/42.

Total Capacity of Generators 30 Kilowatts.

The amount of Fee \$65.16 See Machinery Report When applied for, 29-42

Travelling Expenses (if any) £ : : When received, 19-42

Committee's Minute NEW YORK AUG 26 1942

Assigned Elec. light

W. Haskell R. Rogers  
Surveyor to Lloyd's Register of Shipping.



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Foundation