

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

27 JAN 1943

Received at London Office.....

Date of writing Report. 31st Oct. 1942 When handed in at Local Office.....19..... Port of Portland, Maine (New York) U.S.A.No. in Survey held at South Portland, Maine Date, First Survey 11th August Last Survey 7th October 1942
Reg. Book. (Number of Vists. Continuous)on the s.s. "OCEAN MESSENGER" Tons { Gross 7178
Net 4280Built at So. Portland, Maine By whom built Todd-Bath Iron S.B. Corp. Yard No. 25 When built 1942Owners British Ministry of War Transport Port belonging to LondonElectrical Installation fitted by Todd-Bath Iron Shipbuilding Corporation Contract No. 25 When fitted 1942Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. yes E.S.D. yes Gy.C. no Sub.Sig. xHave plans been submitted and approved yes System of Distribution 2 Wire D.C. Voltage of supply for Lighting 110VHeating 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 atrip 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 theyarranged to run in parallel no, are shunt field regulators provided yes Is the compound winding connected to the negative or positive poleHave machines over 100 kw. been inspected by the Surveyors during manufacture and testing none Have certificates oftest for machines under 100 kw. been supplied x and the results found as per rule x Are the lubricating arrangements and the constructionof 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 situatednear unprotected combustible material state distance from same horizontally x and vertically 7 ft., are the generators protected from mechanicalinjury and damage from water, steam and oil yes, are the bedplates and frames earthed yes and the prime movers and generators in metalliccontact 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, steamand oil yes, if situated near unprotected combustible material state distance from same horizontally x and vertically 7 ft., what insulationmaterial is used for the panels Ebony Asbestos, if of synthetic insulating material is it an Approved Type yes, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule x Is the frame effectually earthed yesIs the construction as per Rule yes, including accessibility of parts yes, absence of fuses on the back of the board yes, individual fusesto 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 switchesDouble Pole Switches & 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 2ammeters 2 voltmeters x synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser 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 asper Rule yes If circuit breakers are provided for the generators, at what overload current did they open when tested x, are the reversed currentprotection devices connected on the pole opposite to the equaliser connection x, have they been tested under working conditions, and at what currentdid they operate x Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule yesCables, 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 0.04square inch and above provided with soldering sockets yes Are paper insulated and varnished cambric insulated cables sealed at the ends none

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fitted as per Rule.....**X**..... Lightning Conductors, where required are they fitted as per Rule.....**X**..... 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.....**X**....., are all fuses of the cartridge type.....**X**..... are they of an approved type.....**X**..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships.....**X**..... Are the cables lead covered as per Rule.....**X**..... Spare Gear, if the vessel is for open sea service have spares been provided as per 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	100	136	450	Steam Engine	x	
EMERGENCY								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	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.R.	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.

L. B. Pinkham

TODD-BATH IRON SHIPBUILDING CORP.

Electrical Engineers.

Date 27/11/42

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 West course in the case of the standard compass, and 2 degrees on North West course in the case of the steering compass.

L. B. Pinkham

TODD-BATH IRON SHIPBUILDING CORP.

Builder's Signature.

Date 27/11/42

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

Noted
24
12/43.

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... \$ 65.16 : When applied for, 19

Travelling Expenses (if any) £ : : When received, 57/11/43
in London

Committee's Minute NEW YORK DEC 23 1942

Assigned Elec. light.

For Mr. S. Kellet & self.
Rodger
Surveyor to Lloyd's Register of Shipping



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Lloyd's Register
Foundation