

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 10 APR 1942

Date of writing Report Jan. 23, 1942 When handed in at Local Office Jan. 23, 1942 Port of RICHMOND, CALIF.

No. in Survey held at RICHMOND, CALIF. Date, First Survey Nov. 17, 1941 Last Survey Jan. 10, 1942
Reg. Book. (Number of Visits 48)

on the S.S. "OCEAN VESTAL" Tons { Gross 7174
Net 4272

Built at RICHMOND, CALIF. By whom built TODD-CALIFORNIA SHIPBUILDING Yard No. 8 When built 1942

Owners BRITISH GOVERNMENT DIVISION of THE PERMANENTE METALS CORPORATION Port belonging to LONDON

Electrical Installation fitted by TODD-CALIFORNIA SHIPBUILDING DIVISION of Contract No. 8 When fitted 1942
THE PERMANENTE METALS CORPORATION

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. NO

Have plans been submitted and approved YES System of Distribution TWO WIRE D.C. Voltage of supply for Lighting 115

Heating Power 115DC Direct or Alternating Current, Lighting DC Power DC 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, are they level compounded under working conditions

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

POSITIVE 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 YES and the results found as per rule YES Are the lubricating arrangements and the construction

of the generators as per rule YES Position of Generators ENGINE ROOM, STARBOARD SIDE, INBOARD AND OUTBOARD

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 ENGINE ROOM, STARBOARD SIDE

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 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 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. 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 2 POLE FUSED

SINGLE THROW KNIFE SWITCHES FOR EACH GENERATOR

and for each outgoing circuit DOUBLE POLE, DOUBLE THROW, KNIFE SWITCH

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 2

ammeters 2 voltmeters 0 synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection Earth Testing, state means provided EARTH 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 NONE, 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

state maximum fall of pressure between bus bars and any point under maximum load 1.4 volt, 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 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	2	15 each	115	136	450	Reciprocating steam engines (2)		
EMERGENCY ...	--							
ROTARY TRANSFORMER	--							

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED 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	15 each	1	.1318	136	138 ✓	40	Rubbery	Lead and armoured
" " EQUALISER	--							
EMERGENCY GENERATOR	--							
ROTARY TRANSFORMEE: MOTOR	--							
" " GENERATOR	--							

[illegible]

WIRELESS	1	.01297	- -	31	200	Rubber	Lead & Armoured
NAVIGATION LIGHTS (4) (Double Filament)	1	.003225	.43	11.5	200	"	"
LIGHTING AND HEATING	- -	- -	- -	- -	- -	- -	- -
Engine & Fire Rooms L1	1	.0261	25.66	48.5	60	"	"
Crews Quarters Aft L2	1	.05213	17.79	74	250	"	"
Foremast House, Cargo Lts., etc. L3	1	.0329	22.90	56	225	"	"
Officers Quarters L4 (A & B)	1	.0329	25.86	56	160	"	"
Engineers Quarters L5	1	.0329	26.3	56	100	"	"
Mainmast House L6	1	.0329	17.55	56	165	"	"
Navigating Lights, etc. L7	1	.01297	- -	31	250	"	"
Emergency W. T. Feeder P 8	1	.01297	- -	31	100	"	"
Fathometer Feeder S3	1	.01297	10.0	31	260	"	"
Portable Cargo Lights	1	.0051	5.16	16.5	25	Rubber	

[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.

K. Sickenberger - Chief Marine Electrician Electrical Engineers. Date _____

COMPASSES.

Minimum distance between electric generators or motors and standard compass 10 feet

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 11 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 3° degrees on South East course in the case of the standard compass, and 3° degrees on North course in the case of the steering compass.

TODD-CALIFORNIA SHIPBUILDING DIVISION Builder's Signature. Date _____
of THE PERMANENTE METALS CORPORATION

Is this installation a duplicate of a previous case YES If so, state name of vessel S. S. "OCEAN VIKING"

Plans. Are approved plans forwarded herewith NO If not, state date of approval May 5th, 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 workmanship is good, material and equipment tested in accordance with

rules and found to be satisfactory. The steam driven generators and

appliances are, in our opinion, eligible to be included in the record

of L.M.C. 1/42

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15/4/42*

Total Capacity of Generators 30 Kilowatts.

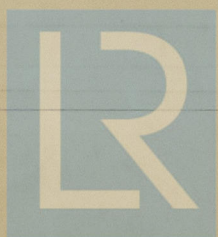
The amount of Fee £50. inclusive fee chargeable at London When applied for, 25/3/1942 When received, 19

John Edwin James I. Robertson
Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK FEB 11 1942

Assigned *Elec light*

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.)



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