

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

3 - AUG 1948

Received at London Office.

Date of writing Report 18<sup>TH</sup> JUNE 1948 When handed in at Local Office 19<sup>TH</sup> JUNE 1948 Port of GALVESTON TEXASNo. in Survey held at GALVESTON TEXAS Date, First Survey 26<sup>TH</sup> MAY 48 Last Survey 12<sup>TH</sup> JUNE 1948  
Reg. Book. (No. of Visits CONTINUOUS)29246 on the SS MESA VERDE Tons { Gross 10640  
Net 6313Built at PORTLAND OREGON By whom built KAISER CO INC Yard No. 99 When built 1944Owners BRITISH TANKERS CO Port belonging to LONDONInstallation fitted by KAISER CO INC When fitted 1944Is vessel equipped for carrying Petroleum in bulk YES Is vessel equipped with D.F. YES E.S.D. YES Gy.C. YES Sub.Sig. YES Radar -Plans, have they been submitted and approved NOTED MARCH 1948 FOR THIS VESSEL System of Distribution AC 3PH. 3WIRE Voltage of Lighting 115Cooking 230 Power 450 D.C. or A.C., Lighting AC Power AC If A.C. state frequency 60/62Prime Movers, has the governing been found as per Rule when full load is thrown on and off YES Are turbine emergency governors fitted YES 400KWSwith a trip switch YES Generators, are they compound wound ONLY, and level compounded under working conditions ✓if not compound wound state distance between generators 8 FEET and from switchboard 30 FEET Are the generators arranged to runin parallel YES 400KWS SETS, are shunt field regulators provided YES EXCITERS 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 ABS Have certificates oftest for machines under 100 kw. been supplied ✓ and the results found as per Rule ✓Position of Generators IN ENGINE ROOM STARBOARD SIDE GENERATOR FLATis the ventilation in way of generators satisfactory YES are they clear of inflammable material and protected from mechanical injury anddamage from water, steam and oil YES Switchboards, where are main switchboards placed IN ENGINE ROOM ONGENERATOR FLAT THWARTSHIP FORWARD.

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

steam and oil YES, what insulation is used for the panels EBONY ASBESTOS AND AIEE APPROVED MATERIAL if of synthetic insulatingmaterial is it an Approved Type YES, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom asper Rule ✓ Is the construction as per Rule, including locking of screws and nuts YES Description of Main Switchgearfor each generator and arrangement of equaliser switches 400 KWS GENERATORS. THREE POLE LINKED CIRCUIT BREAKERSWITH OVERLOADS AND REVERSE POWER TRIPS AND THREE POLE ISOLATING SWITCHES. 55 KWS EXCITERSD.P. LINKED BREAKER WITH OVERLOADS AND SELECTOR SWITCH. 75 KWS EXCITERS D.P. DT SWITCHand the switch and fuse gear (or circuit breakers) for each outgoing circuit TWO AND THREE POLE LINKED CIRCUITBREAKERSAre compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 7ammeters 5 voltmeters 1 synchronising devices. For compound machines in parallel are the ammeters and reversed currentprotection devices connected on the pole opposite to the equaliser connection YES Earth Testing, state means provided EARTHLAMPSSwitches, Circuit Breakers and Fuses, are they as per Rule AIEE STANDARDS, are the fuses an Approved Type AIEE STANDARD.make of fuses (RENEWABLE TYPE), are all fuses labelled ✓ If circuit breakers are provided for the generators, at whatoverload do they operate 120%, and at what current do the reversed current protective devices operate 25 KwsJoint Boxes, Section Boards and Distribution Boards, is the construction as per Rule AIEE STANDARDSCables, are they insulated and protected as per Rule ✓, if otherwise than as per Rule are they of an Approved Type YES AIEEstate maximum fall of pressure between bus bars and any point under maximum load ✓, are the ends of all cables having a sectionalarea of 0.01 square inch and above provided with soldering sockets YES Are all paper insulated and varnished cambric insulatedcables sealed at the ends YES Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil,high temperatures or risk of mechanical damage YES, are any cables laid under machines or floorplates NO, if so, are theyadequately protected ✓ Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit ✓or of the "HR" type ✓ State how the cables are supported or protected MAIN FEEDER CABLES LEAD COVERED ANDBASKET WEAVE ARMoured RUN IN CONDUIT ON DECK SUPPORTED BY STRAPS UNDER FORE AND AFT WALKWAY.CABLES IN ACCOMMODATION AND ENGINE ROOM CLIPPED TO BRACKETS AND BULKHEADS. MAINPROPULSION CABLES SUPPORTED ON CLEATSAre all lead sheaths, armouring and conduits effectually bonded and earthed YES Are all cables passing through decks and watertightbulkheads provided with deck tubes or watertight glands YES, where unarmoured cables pass through beams, etc., are the holeseffectively bushed YES Refrigerated chambers, are the cables and fittings as per Rule YES







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 Contractors.

Date

#### COMPASSES.

Have the compasses been adjusted under working conditions. YES

Builder's Signature.

Date

Have the foregoing descriptions and schedules been verified and found correct. YES

Is this installation a duplicate of a previous case. YES If so, state name of vessel. SS ESSO NORMANDIE

Plans. Are approved plans forwarded herewith. YES If not, state date of approval. -

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith. NO

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.) The electrical installation to the requirements of the American Bureau of Shipping has been in operation since November 1944. The condition and standard of materials and workmanship are considered good and satisfactory.

The dimensions in this Report have been taken from the ABS approved plans. The dimensions have been checked as far as possible on the ship and found correct. and the installation has been examined under working conditions and found to be satisfactory.

In my opinion the electrical installation is such as could be accepted by the Committee for classification.

Total Capacity of Generators 1185 Kilowatts.

The amount of Fee ... £ \$150 : When applied for,

19

When received,

19

Travelling Expenses (if any) £ -

James W. Bloomfield  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK JUL 14 1948

Assigned Elec. light



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