

T.2. TANKER - WESTINGHOUSE TYPE.

Rpt. 13.

No. 105723

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.

Date of writing Report 19 When handed in at Local Office 11 NOV 1948 Port of NEWCASTLE-ON-TYNE.
 No. in Survey held at WALLSEND Date, First Survey 28/9/48 Last Survey 8/11/48 19
 Reg. Book. (No. of Visits 11)
 58412 on the T.E.S. "ESSO PURFLEET." Tons { Gross 10712
 Net 6301
 Built at CHESTER P.A. By whom built SUN S.B. & D.D. Co. Yard No. - When built 1944.
 Owners ANGLO AMERICAN OIL CO. LTD. Port belonging to LONDON.
 Installation fitted by SUN S.B. & D.D. Co. When fitted 1944.
 Is vessel equipped for carrying Petroleum in bulk YES Is vessel equipped with D.F. YES E.S.D. YES Gy.C. YES Sub. Sig. -

Plans, have they been submitted and approved No System of Distribution 3 WIRE A.C. Voltage of Lighting 115
 COOKING 115 Power 450 D.C. or A.C., Lighting A.C. Power A.C. If A.C. state frequency 60
 Heating
 Prime Movers, has the governing been found as per Rule when full load is thrown on and off YES Are turbine emergency governors fitted
 with a trip switch YES Generators, are they compound wound - and level compounded under working conditions -
 if not compound wound state distance between generators - and from switchboard - Are the generators arranged to run
 in parallel YES, 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 No Have certificates of
 test for machines under 100 kw. been supplied No and the results found as per Rule -

Position of Generators IN ENGINE ROOM
 is the ventilation in way of generators satisfactory YES are they clear of inflammable material and protected from mechanical injury and
 damage from water, steam and oil YES Switchboards, where are main switchboards placed
 NEAR ALTERNATORS - ON FORWARD END OF MAIN CONTROL PLATFORM
 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 DEAD FRONT BOARD, 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 - Is the construction as per Rule, including locking of screws and nuts YES Description of Main Switchgear
 for each generator and arrangement of equaliser switches THREE POLE CIRCUIT BREAKER WITH OVERLOAD RELEASE WITH TIME LAGS UNDERVOLTAGE
 AND REVERSE CURRENT RELAYS.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit TRIPLE POLE CIRCUIT BREAKER WITH THREE OVERLOADS
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 15
 3 WATTMETERS AND 2 FREQ. METERS
 ammeters 7 voltmeters ONE synchronising devices. For compound machines in parallel are the ammeters and reversed current
 protection devices 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 AMERICAN PATTERN.
 make of fuses - are all fuses labelled YES If circuit breakers are provided for the generators, at what
 overload do they operate FULL LOAD, and at what current do the reversed current protective devices operate 10% FL.

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule YES
 Cables, are they insulated and protected as per Rule YES, if otherwise than as per Rule are they of an Approved Type AMERICAN STANDARDS
 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 0.01 square inch and above provided with soldering sockets NO - ALL MECHANICAL CONNECTORS Are all paper insulated and varnished cambric insulated
 cables 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 YES, if so, are they
 adequately protected YES 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 ALL CABLES - LEAD COVERED AND ARMOURED RUN ON "U"
 BRACKETS.

Are all lead sheaths, armouring and conduits effectually bonded and earthed YES Are all cables passing through decks and watertight
 bulkheads provided with deck tubes or watertight glands YES, where unarmoured cables pass through beams, etc., are the holes
 effectively bushed NO UNARMOURED CABLES ON SHIP Refrigerated chambers, are the cables and fittings as per Rule -

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule YES Emergency Supply, state position
 UPPER PLATFORM IN ENGINE ROOM

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

MOTOR CABLES.

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

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 No If so, state name of vessel

Plans. Are approved plans forwarded herewith No If not, state date of approval

Certificates. Are certificates of test for motors engaged on essential sea 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 EQUIPMENT OF THIS SHIP TO THE STANDARDS OF THE AMERICAN BUREAU OF SHIPPING HAS BEEN IN OPERATION FOR APPROXIMATELY FOUR YEARS. ALTERNATORS AND EXCITERS EXAMINED. SWITCHBOARDS EXAMINED AND ALL MECHANICAL CONNECTORS EXAMINED FOR TIGHTNESS. ENGINE ROOM MOTORS EXAMINED. THE LIGHTING FITTINGS IN THE 'TWEEN DECK SPACE CENTRE CASTLE HAVE BEEN REPLACED WITH FLAMEPROOF FITTINGS (SWITCHES IN ACCOMMODATION ALLEYWAY). THE JUNCTION BOX IN THE 'TWEEN DECK SPACE CENTRE CASTLE HAS BEEN OVERHAULED, THE LID GROUNDED, AND A JOINTING OF ASBESTOS CORD IMPREGNATED WITH RED LEAD FITTED AND IS NOW CONSIDERED EFFICIENT.

THE MATERIALS USED AND THE WORKMANSHIP ARE SATISFACTORY.

IN MY OPINION THE ELECTRICAL EQUIPMENT OF THIS SHIP IS IN A SATISFACTORY CONDITION AND ELIGIBLE TO RECEIVE THE SOCIETY'S CLASSIFICATION OF L.M.C. H8.

Total Capacity of Generators 925 Kilowatts.

The amount of Fee ... £	:	:	When applied for,
SUNDAY ATTENDANCE FEE. £5-5-0.	:	:	<u>not yet</u>
Travelling Expenses (if any) £	:	:	When received, 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 4 FEB 1949

Assigned

See minute on fe
mach H.