

No. 106363

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

27 JUL 1949

Received at London Office

Date of writing Report 25 JUNE 1949 When handed in at Local Office 25 JUN 1949

Port of NEWCASTLE-ON-TYNE

Survey held at WALLSEND-ON-TYNE.

Date, First Survey 28/4/49

Last Survey 21/6/49 19

(No. of Visits 12)

on the T.E.V. "ESSO BIRMINGHAM."

Tons { Gross 10727.

Net 6324.

Built at CHESTER, PA.

By whom built SUN S.B. & DRY DOCK CO.

Yard No. —

When built 1943.

Owners ANGLO-AMERICAN OIL CO. LTD.

Port belonging to LONDON.

Installation fitted by SUN S.B. & DRY DOCK CO.

When fitted 1943.

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 THREE WIRE - A.C. Voltage of Lighting 115

Power 115 Power 450 D.C. or A.C., Lighting A.C. Power A.C. If A.C. state frequency 60

Time 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 —

not compound wound state distance between generators — and from switchboard — Are the generators arranged to run

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

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 GENERATORS - 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

each generator and arrangement of equaliser switches THREE POLE CIRCUIT BREAKER WITH THREE OVERLOADS WITH TIME LAG UNDERVOLTAGE

TO REVERSE CURRENT TRIPS.

Is the switch and fuse gear (or circuit breakers) for each outgoing circuit THREE 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

Also 3 WATTMETERS AND 2 FREQ. METERS. meters 7 voltmeters 1 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.

Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type AMERICAN STANDARDS

What size of fuses —, are all fuses labelled YES If circuit breakers are provided for the generators, at what

load do they operate FULL LOAD, and at what current do the reversed current protective devices operate 10%

At 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

The 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,

at 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 —

of the "HR" type — State how the cables are supported or protected ALL CABLES - LEAD COVERED AND ARMoured CLIPPED.

All lead sheaths, armouring and conduits effectually bonded and earthed YES Are all cables passing through decks and watertight

heads provided with deck tubes or watertight glands YES, where unarmoured cables pass through beams, etc., are the holes

adequately bushed NO UNARMoured CABLES ON SHIPS 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

IN ENGINE ROOM - AT ENGINE ROOM TOPS.

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory?

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Lloyd's Register
Foundation

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 YES If so, state name of vessel "Esso LONDON"

Plans. Are approved plans forwarded herewith — 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 INSTALLATION TO THE STANDARDS OF THE AMERICAN BUREAU OF SHIPPING HAS BEEN IN OPERATION FOR APPROXIMATELY SIX YEARS. ALTERNATORS AND EXCITERS OPENED UP FOR EXAMINATION, BRUSHGEAR CLEANED AND OVERHAULED. SWITCHBOARD OVERHAULED AND ALL CONNECTIONS EXAMINED FOR TIGHTNESS. ENGINE ROOM MOTORS EXAMINED INTERNALLY. EMERGENCY ALTERNATOR AND SWITCHBOARD OVERHAULED. THE LIGHTING FITTINGS IN THE TWEEN DECK SPACE CENTRE CASTLE HAVE BEEN REPLACED FLAMEPROOF FITTINGS (SWITCHING IN ACCOMMODATION ALLEYWAY). THE JUNCTION BOX IN THE TWEEN DECK SPACE CENTRE CASTLE HAS HAD LID FLANGE GROUND AND A JOINTING OF ASBESTOS CORD IMPREGNATED WITH RED LEAD FITTED AND IS NOW CONSIDERED EFFICIENT. TRANSFORMER FITTED TO E.R. MOTORS PILOT LIGHTS VOLTAGE 115/24 VOLTS. ALL LIGHTING AND POWER CIRCUITS EXAMINED A MEGGER TESTED. ALL FOUND SATISFACTORY

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. 6. H.P.

Noted sent 11/10/49

Total Capacity of Generators 925 Kilowatts.

The amount of Fee ... £ : : When applied for, not yet
LATE ATTENDANCE FEE. £ 3-13-0 : : When received, 19
Travelling Expenses (if any) £ : : 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned