

Rpt. 13.

No. 139/20

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

17 FEB 1954

Date of writing Report 28. 1. 1954 When handed in at Local Office 5. 2. 1954

Received at London Office

Port of LIVERPOOL

No. in Survey held at NORTHWICH

Date, First Survey 19/1/54

Last Survey 27/1/54

Reg. Book.

(No. of Visits 2)

36039 on the

TUG. "ESSO READING"

Tons { Gross. Net.

Built at NORTHWICH

By whom built W.J. YARWOOD &amp; SONS LTD

Yard No. 886

When built 1954

Owners ESSO PETROLEUM CO. LTD

Port belonging to LONDON

Installation fitted by W.J. YARWOOD &amp; SONS LTD

When fitted 1954

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No Radar No

Plans, have they been submitted and approved Yes System of Distribution Two wire Voltage of Lighting 35

Heating — Power — D.C. or A.C., Lighting D.C. Power — If A.C. state frequency —

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 — Generators, are they compound wound Short wound, and level compounded under working conditions —

Are the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole —

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing — Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule Yes Position of Generators In Engine Room (one belt

driven by main engine; one driven by oil engine).

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 In engine room near

Generators.

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. Sindamph. 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 — 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. Double pole fuses and Double pole change over

Contactors.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. Double pole switch fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Yes Instruments on main switchboard 3

ammeters 3 voltmeters — synchronising devices. For compound machines in parallel are the ammeters and reverse current

protection devices connected on the pole opposite to the equaliser connection — Earth Testing, state means provided.

Earth Lamps Preference Tripping, state if provided No, and tested —

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type. Yes

make of fuses. Siemens, are all fuses labelled. Yes If circuit breakers are provided for the generators, at what

overload do they operate —, and at what current do the reverse current protective

devices operate — Cables, are they insulated and protected as per Rule. 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. 1.6 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends. —

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 they adequately protected. — State

type of cables (if in conduit this should also be stated) in machinery spaces. L.C.A.B., galleys. L.C.

and laundries. — State how the cables are supported or protected. All cables are L.C. or

L.C.A.B. supported on steel ways on clipped steel structure and protected

from mechanical damage as necessary.

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. Yes Refrigerated chambers, are the cables and fittings as per Rule. —

Have refrigeration fan motors been constructed under survey. — and test certificates supplied. —

Are the motors accessible for maintenance at all times. —







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.  
W. J. YARWOOD & SONS LTD.,

*[Signature]*  
MANAGING DIRECTOR

Electrical Contractors.

Date *29<sup>th</sup> Jan.*, 1954.

#### COMPASSES.

Have the compasses been adjusted under working conditions *Yes.*  
W. J. YARWOOD & SONS LTD.,

*[Signature]*  
MANAGING DIRECTOR

Builder's Signature.

Date *29<sup>th</sup> Jan.*, 1954.

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 GREENWICH'*

Plans. Are approved plans forwarded herewith *Yes* If not, state date of approval *Yes*

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith *Yes.*

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

*The electrical equipment of this vessel has been installed under special survey, in accordance with the approved plans & the Rules for Electrical Equipment.*

*The installation has been examined whilst under full working conditions and found satisfactory. The materials and workmanship are good.*

*In my opinion this electrical equipment is eligible to be accepted for classification with this Society.*

*Noted 98*  
*24/2/54*

Total Capacity of Generators *4 ✓* Kilowatts.

The amount of Fee ... £ *6* : 0 : 0 When applied for,

*9 FEB 1954*

When received,

Travelling Expenses (if any) £ *1* : 0 : 0

*[Signature]*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

*LIVERPOOL*

*16 FEB 1954*

Assigned

*See Machinery Report*



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Foundation