

Rpt. 13.

No. 146115

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

6 FEB 1957

Date of writing Report 14. 1. 1957 When handed in at Local Office 19

Port of Liverpool

No. in Survey held at Noddwich Date, First Survey 6/10/54 Last Survey 31/12/56

Reg. Book.

(No. of Visits 7)

91678 on the n.v. "B.P. EXPLORER" Tons Gross 303 Net 188

Built at Noddwich By whom built W. J. Yarwood &amp; Sons Ltd. Yard No. 900 When built 1957

Owners Shell Mex B.P. Ltd. Port belonging to London

Installation fitted by W. J. Yarwood &amp; Sons Ltd. When fitted 1957

Is vessel equipped for carrying Petroleum in bulk Yes 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 2 wire D.C. Voltage of Lighting 24

Heating 110 Power - D.C. or A.C., Lighting D.C. Power D.C. 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 Yes compounded under working conditions Yes

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

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

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

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 Flame proof plastic wood, 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 Double pole switchgear

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

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

ammeters 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 Continuously

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 H.R.C., 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 3 volts. 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 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. or L.C.A.B.

and laundries - State how the cables are supported or protected Laid on deck supports

on steel girders with steel protecting covers. Engine Room. L.C.A.B. on steel girders or clamped

direct to structure. Accommodation etc. L.C.A.B. or L.C. on steel girders, wood grounds or

clamped direct to structure. All cables protected 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 -

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

W. J. YARWOOD & SONS LTD.,

Electrical Contractors.

Date 18<sup>th</sup> Jan, 1957

MANAGING DIRECTOR

#### COMPASSES.

Have the compasses been adjusted under working conditions. Yes

W. J. YARWOOD & SONS LTD.,

Builder's Signature.

Date 18<sup>th</sup> Jan, 1957

MANAGING DIRECTOR

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. B.P. MANUFACTURER

Plans. Are approved plans forwarded herewith. No. If not, state date of approval. 16.6.54 & 6.5.55.

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.) This electrical equipment has been installed under special survey, in accordance with the approved plans, the Rules for Electrical Equipment and the Society's General Specification for Petroleum Vessels operating on Canals & Inland Waterways.

The equipment was tested under full working conditions & found satisfactory. The materials & workmanship are good.

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

Total Capacity of Generators 24 Kilowatts.

The amount of Fee ... £ 24 : 0 : 0 When applied for,

-1 FEB 1957

When received,

Travelling Expenses (if any) £ 3 : 13 : 0

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

LIVERPOOL - 5 FEB 1957

Assigned

See Li 9.6. Mach. 3. Report

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