

Rpt. 13.

No. 35873

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Sunderland

Date of writing Report 16th Aug. 1952 When handed in at Local Office AUG 22 1952 Port of

No. in Survey held at Sunderland Date, First Survey 18. 4. 52 Last Survey 20th Aug. 1952  
Reg. Book. (No. of Visits SIXTEEN)

54695 on the m. v. "CALTEX DELHI" Tons Gross 851 Net 4808

Built at Sunderland By whom built Wm. Doxford &amp; Sons Ltd. Yard No. 788 When built 1952

Owners Overseas Tankship (U.K.) Ltd. Port belonging to London

Installation fitted by Campbell &amp; Isherwood Ltd. When fitted 1952

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. no Radar yes

Plans, have they been submitted and approved yes System of Distribution 2-wire insd. Voltage of Lighting 110

Heating - Power 110 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, and level compounded under working conditions yes

Are the generators arranged to run in parallel yes 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 yes Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule yes Position of Generators Nos. 1 &amp; 2 Engine Room

floor level, port side,

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 Engine room, on raised

flat athwartships, fwd of main engine.

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 black matt. "Interohm" 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

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 a triple-pole (one pole for equaliser) air-break circuit

breaker fitted with O/L &amp; R/V current tripping devices.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit for large power:- a D.P. air-break circuit

breaker with O/L trips on each pole: for other circuits:- a D.P. quick-break knife switch

and D.P. 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 yes Earth Testing, state means provided 3 lamps

Preference Tripping, state if provided no, and tested yes

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

make of fuses 'Artic' are all fuses labelled yes If circuit breakers are provided for the generators, at what

overload do they operate 10% and at what current do the reverse current protective

devices operate within 15% 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 within 6 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.A.B.

and laundries - State how the cables are supported or protected main feeders and cables along

fore and aft gangways V.C.L.C.A.B. clipped to solid metal troughing on underside of gangway.

Accommodation: L.C.B. cables clipped to the surface and protected where necessary by wood

or metal guards.

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 yes

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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Foundation



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.

CAMPBELL ISHERWOOD, LTD.  
PER J. Meade

Electrical Contractors.

Date 18<sup>th</sup> August 1952

#### COMPASSES.

For and on behalf of  
Have the compasses been adjusted WILLIAM DOXFORD & SONS, LTD. yes

B. Stephen  
Shipyard General Manager.

Builder's Signature.

Date 21/8/52.

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 "Caltex Kenya"

Plans. Are approved plans forwarded herewith as fitted, Yes. If not, state date of approval Sw. Bd. 15.10.51, D. 24.4.52

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 and the special requirements of Section 15 of the Electrical Rules. The materials and workmanship are good and on completion, satisfactory trials of the equipment were witnessed and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a vessel bearing the Society's class for "Carrying Petroleum in Bulk".

Noted ADM 17-9-52

( 2 x 150, 1 x 50 ) 350 Kilowatts.  
Total Capacity of Generators

The amount of Fee SLD % £ 75 : 12 : 0 When applied for,  
LV % 18. 18. 0 SEP - 5.1952

2. 94.10.0 When received,  
Travelling Expenses (if any) £ : : 19

B. D. Meade  
Surveyor to Lloyd's Register of Shipping.

FRI. 26 SEP 1952

Committee's Minute

Assured

See F.E. mealy rpt.