

Rpt. 13.

No. 35873

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

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

No. in Survey held at **Sunderland** Date, First Survey **18. 4. 52** Last Survey **20th Aug. 19 52**
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 & Sons Ltd.** Yard No. **788** When built **1952**

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

Installation fitted by **Campbell & 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 & 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. "Interdam"** 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 **a triple-pole (one pole for equaliser) air-break circuit breaker fitted with O/L & 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, armoring 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 **-**

004662-004667-0018

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. Electrical Contractors. Date 18th August 1952

COMPASSES.

For and on behalf of
 Have the compasses been adjusted WILLIAM DOXFORD & SONS LIMITED YES

B. Stephen Builder's Signature. Date 21/8/52.
 Shipyard General Manager.

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 ADW 17-9-52

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

The amount of Fee	SHD %	£ 75	: 12	: 0	When applied for,
	LV %	18	: 18	: 0	SEP - 5 1952
		94.10	: 0		When received,

Travelling Expenses (if any) £ : : 19

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

FRI. 26 SEP 1952

Committee's Minute

Assured Su F.E. maly rpt.

2m. 8.50.—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

11.9.52

