

Rpt. 13.

No. 114465

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.

Date of writing Report 3rd July 1957 When handed in at Local Office 3 JUL 1957 Port of NEWCASTLE-ON-TYNENo. in Survey held at SOUTH SHIELDS Date, First Survey Dec. 11 1956 Last Survey Dec 27 1957  
Reg. Book. (No. of Visits 13)on the S.S. "ESSO WANDSWORTH" Tons 4352Built at DULUTH, MINNESOTA By whom built Barnes, Duluth S.B.Co. Yard No. - When built 1943Owners Esso Petroleum Co. Limited. Port belonging to LONDONInstallation fitted by Barnes - Duluth S. B. Company. When fitted 1943Is vessel equipped for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. No XXX Yes Radar Decca  
not built underPlans, have they been submitted and approved Survey System of Distribution Two wire Voltage of Lighting 110Heating - 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 fittedwith a trip switch - Generators, are they compound wound Yes, and level compounded under working conditions YesAre the generators arranged to run in parallel Yes Is the compound winding connected to the negative or positive pole NegativeHave machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machinesunder 100 kw. been supplied and the results found as per Rule - Position of Generators Engine Room floor level aft

of main engine.

Is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury anddamage from water, steam and oil Yes Switchboards, where are main switchboards placed Engine Room floor level

adjacent to after bulkhead and adjacent to 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 Dead Front, if of synthetic insulatingmaterial is it an Approved Type -, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom asper Rule - Is the construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgearfor each generator and arrangement of equaliser switches Manually operated double pole circuit breaker with 2

O/L's and time lags and reverse current trip and triple pole isolating switch.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole switch and fuses.Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 4ammeters 3 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reverse currentprotection devices connected on the pole opposite to the equaliser connection Yes 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 American Standardmake of fuses American Std. Cartridge are all fuses labelled Yes If circuit breakers are provided for the generators, at whatoverload do they operate Tested at 100% Set at 150% F.L., and at what current do the reverse current protectingdevices operate 15% F.L. Cables, are they insulated and protected as per Rule Main cables & new instal-if otherwise than as per Rule are they of an Approved Type L.O. letter 6.9.56 state maximum fall of pressure between bus bars and any pointunder maximum load Less than 6% 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 -, if so, are they adequately protected V.C. L.A. & R.C.L.A.type of cables (if in conduit this should also be stated) in machinery spaces V.C. L.A., galleys L.O. Letter 6.9.56.and laundries - State how the cables are supported or protected Main run V.C. L.A.B. through

pipes on deck. Accommodation and machinery spaces cables clipped to metal trays, metalwork

or woodwork and protected where necessary.

Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertightbulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holeseffectively 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 -



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

004727-004735-0092<sup>2</sup>/<sub>2</sub>



*All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.*

### Electrical Contractors.

Date \_\_\_\_\_

*Have the compasses been adjusted under working conditions.*

-Builder's Signature.

Date \_\_\_\_\_

*Is this installation a duplicate of a previous case.*

YES

*If so, state name of vessel.*

ESSE CUELTER ESSE LINGETTES ESSE FULMANT

**Plans.** Are approved plans forwarded herewith.

YEN

...If not, state date of approval

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith. **NOT AVAILABLE VESSEL**

with NOT AVAILABLE  
NOT BUILT TO CLASS

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

The Electrical Equipment of this Vessel, was fitted on board under American Bureau Survey, has now been examined throughout, seen under working conditions and found to be satisfactory. The equipment, as installed, is in our opinion, suitable for a Class Ship.

*Total Capacity of Generators.....35.....Kilowatts.*

The amount of Fee ... £ 12 : 0 : / When applied for,

When applied for,

19

When received,

Travelling Expenses (if any) £ : : 19.

Surveyor to Lloyd's Register of Shipping

J. HANCOCK.

Committee's Minute.

FRIDAY 9 AUG 1957

Assigned..... See Rpt. 8.