

Rpt. 13.

No. 106343

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 27.6.49 19... When handed in at Local Office 4-JUL-1949 Received at London Office 20 JUL 1949
 Port of Newcastle-on-Tyne

No. in Survey held at Hebburn-on-Tyne Date, First Survey 2. 2 .49 Last Survey 17. 6. 19 49
 Reg. Book. m.v. "LATIRUS" (No. of Visits 13)

Built at Hebburn-on-Tyne By whom built R. & W. Hawthorn Leslie & Co. Ltd. Card No. 699 When built 1949
 Owners Anglo Saxon Petroleum Co. Ltd Port belonging to London

Installation fitted by R. & W. Hawthorn Leslie & Co. Ltd When fitted 1949

Is vessel equipped for carrying Petroleum in bulk yes Is vessel equipped with D.I. yes E.S.D. yes Gy.C. yes Sub.Sig. no Radar no.

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, if not compound wound state distance between generators - and from switchboard - Are the generators arranged to run in parallel no, are shunt field regulators provided yes Is the compound winding connected to the negative or positive pole negative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines under 100 kw. been supplied yes and the results found as per Rule yes

Position of Generators engine room star board on raised stools

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 on angle framework 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 Thick matt. "Sindanyo", 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 double pole quick break knife switch and double pole fuse.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit as for generators

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 2 ammeters 2 voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reversed current protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided E. lamps coupled to E through switches and fuses

Switches, ~~Circuit Breakers~~ and Fuses, are they as per Rule yes, are the fuses an Approved Type yes, make of fuses 'ZED', 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 reversed current protective devices operate -

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule yes

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 less than 6.v. are the ends of all cables having a sectional area of 0.01 square inch and above provided with soldering sockets yes 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 - Are cables in machinery spaces, galleys, laundries, etc., lead covered yes or run in conduit - or of the "HR" type - State how the cables are supported or protected Main feeders along fore and aft gangway clipped under hardwood cleats to steel troughing : In accommodation, L.C. cables on 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

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Lloyd's Register
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.

C. H. Thompson

Electrical Contractors.

Date 28. 6. 49.

COMPASSES.

Have the compasses been adjusted under working conditions.

C. H. Thompson

Builder's Signature.

Date 28. 6. 49.

Have the foregoing descriptions and schedules been verified and found correct. **yes**

Is this installation a duplicate of a previous case. **no** If so, state name of vessel. -

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

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

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, 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 "Rules For Electrical Equipment". The materials and workmanship are good. Upon completion trials of the equipment were carried out with satisfactory results and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Noted *End* 8/8/49

Total Capacity of Generators (2x30) 60 Kilowatts.

The amount of Fee ... £ 49 : 0 :
Slade
When applied for, 19 JUL 1949
When received, 19

Travelling Expenses (if any) £ : : 19

Surveyor to Lloyd's Register of Shipping.

SUNDERLAND.

FRI. 12 AUG 1949

Committee's Minute.

Assigned

See F.E. ncbg. rpt.