

Rpt. 13.

No. 4004

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

30 JUN 1941

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of Salveston

No. in Survey held at Hamburg Date, First Survey 25/11 19 40

Reg. Book. Gen. Exam. Salveston. (Number of Visits.....)

89306 on the Swiss M/T. "NUEVA ANDALUCIA" Tons { Gross 10044.
Net 5786

Built at Hamburg By whom built Deutsch Werft A.G. Yard No. 232 When built 1940.

Owners The Texas Co. (Norway A.S.) Port belonging to Oslo.

Electric Light Installation fitted by A. L. L. Contract No. - When fitted 1940.

Is the Vessel fitted for carrying Petroleum in bulk Yes.

System of Distribution

Two wirePressure of supply for Lighting 110 volts, Heating 110 volts, Power 110. volts.

Direct or Alternating Current, Lighting

direct

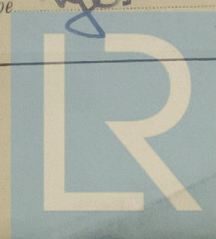
Power

directIf alternating current system, state frequency of periods per second -Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes.Generators, do they comply with the requirements regarding temperature rise Yes, are they compound wound yes.are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator -Where more than one generator is fitted are they arranged to run in parallel No., is an adjustable regulating resistance fitted in series with each shunt field yes.Have certificates of test results for machines under 100 kw. been submitted and approved - Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing done.Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes.Are the lubricating arrangements of the generators as per Rule yes.

Position of Generators

Engine Room floor, port side forward.is the ventilation in way of the generators satisfactory yes. are they clear of all inflammable material yes if situated near unprotectedwoodwork or other combustible material, state distance of same horizontally from or vertically above the generators - and -are the generators protected from mechanical injury and damage from water, steam or oil yes., are their axes of rotation fore and aft -Earthing, are the bedplates and frames of the generating plant efficiently earthed yes. are the prime movers and their respective generatorsin metallic contact yes Main Switch Boards, where placed on port side of bulkhead forward.If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard -Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes yes., are they protected from mechanicalinjury and damage from water, steam or oil yes., if situated near unprotected woodwork or other combustible material, state distance of samehorizontally from or vertically above the switchboards - and -, are they constructed wholly of durable, non-ignitable non-absorbentmaterials marble, is all insulation of high dielectric strength and of permanently high insulation resistance -is it of an approved type -, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or othernon-hygroscopic insulating material, and the slab similarly insulated from its framework Yes, is the non-hygroscopic insulating material of an approvedtype -, and is the frame effectively earthed yes. Are the fittings as per Rule regarding:— spacing or shielding of live partsyes, accessibility of all parts yes, absence of fuses on back of board yes., temperature rise ofomnibus bars -, individual fuses to voltmeter, pilot or earth lamp yes, are moving parts of switches alive in the"off" position No are all screws and nuts securing connections effectively locked yes are any fuses fitted on the live side ofswitches no Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switchesCircuit Breakers with overload trip, Double pole change over switch and a fuse on each pole.Are turbine driven generators fitted with emergency trip switch as per rule - Are cupboards or compartments containing switchboards composed offire-resisting material or lined with approved material yes Instruments on main switchboard ammeters 2voltmeters 2. 2 synchronising devices for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

voltmeters with Ohm. scale. Switches, Circuit Breakers and Fusible Cut-outs,do these comply with the requirements of the Rules yes are the fusible cutouts of an approved type yes have the reversed

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All Conductors are of annealed copper conforming to British Standard Specification No. 7. (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying Ampères feet from standard compass feet from steering compass.

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A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power. *stated to have been satisfactorily adjusted and tested at sea trials*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case *Yes(?)* If so, state name of vessel *"Newa Isanada"*

General Remarks (State quality of workmanship, opinions as to class, &c.)

Salveston, Nov. 1940. The above electrical installation has been generally examined and tested under working conditions. So far as seen the workmanship and materials are good, and the installation in accordance with the Society's Rules.

Total Capacity of Generators *90* Kilowatts.

The amount of Fee £	:	:	When applied for, 19
Travelling Expenses (if any) £	:	:	When received. 19

Surveyor to Lloyd's Register of Shipping.
Wm Kenne

Committee's Minute

TUE. 29 JUL 1941

Assigned

See Gal. J.E. 4004



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