

Rpt. 13.

No. 9822.

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

21 SEP 1953

Received at London Office

Date of writing Report 12-9-1953 When handed in at Local Office 14-9-1953 Port of SINGAPORE  
 No. in Survey held at Singapore Date, First Survey 18-8-53 Last Survey 8-9-1953  
 Reg. Book. 20707 on the "NASSAU" (No. of Visits 5) Tons { Gross 659 Net 309  
 Built at Rochester N.Y. By whom built Odenbach S.B.Co Yard No.          When built 1944  
 Owners Indo-Burma General Petroleum Co Ltd Port belonging to The Hague  
 Installation fitted by          When fitted           
 Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F.          E.S.D.          Gy.C.          Sub.Sig.          Radar         

Plans, have they been submitted and approved Yes System of Distribution 3 PHASE 2 WIRE DC POWER Voltage of Lighting 110  
 Heating ✓ Power 220 AC D.C. or A.C., Lighting AC Power AC + DC If A.C. state frequency 60 cycles  
 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 Yes, are shunt field regulators provided Yes. Is the compound winding connected to the negative or positive pole ✓. 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 ✓ and the results found as per Rule ✓  
 Position of Generators in engine room forward port & starboard 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 in E.R. forward  
 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 AC switchboard - "dead front" 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 AC.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit AC - triple pole circuit breakers - (DC - knife switches & fuses - cargo only)

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule ✓ Instruments on main switchboard 3 ammeters 1 voltmeters 1 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 cast lamps

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes make of fuses U.S. type, are all fuses labelled Yes. If circuit breakers are provided for the generators, at what overload do they operate 250 amps, 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 ambimetic voltage reg. 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 ✓. 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 clips and armoured.

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 ✓. Refrigerated chambers, are the cables and fittings as per Rule ✓



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.

..... Electrical Contractors. Date.....

**COMPASSES.**

Have the compasses been adjusted under working conditions.....

..... Builder's Signature. Date.....

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

Is this installation a duplicate of a previous case *not known* If so, state name of vessel..... *✓*

Plans. Are approved plans forwarded herewith..... *No.* If not, state date of approval *NOTED. 17-7-53.*

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith..... *No*

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.).....

*The electrical installation of this vessel has been examined for classification & in accordance with Rule requirements for vessels not built under survey and the Secretary's letter.*

*The installation has been examined and insulation megger tested and found to be in good condition*

*The quality of materials and workmanship are good*

*In my opinion the electrical installation of this vessel is in good condition and eligible to be classed*

Total Capacity of Generators..... *120* Kilowatts.

The amount of Fee ... £ : : When applied for,

..... 19 .....

When received,

..... 19 .....

Travelling Expenses (if any) £ : :

*F. J. Dunn*  
 Surveyor to Lloyd's Register of Shipping.

TUESDAY 29 SEP 1953

Committee's Minute.....

Assigned..... *See minute in file held at*

