

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 27 APR 1946

Date of writing Report 20th Feb 1946 When handed in at Local Office 19 Port of SYDNEY, N.S.W.

No. in Survey held at Rhodes & Sydney, N.S.W., Date, First Survey 5th Feb Last Survey 19th Feb 1946
Reg. Book. (Number of Visits 2)

on the T.S.M.S. "T AND JONG OEBAN" Tons Gross 195 Net 98

Built at Rhodes, N.S.W., By whom built Commonwealth Government Shipbuilding Estab. No. 4 Yard No. 65 When built 1946

Owners { Nederlandsche Koloniale Petroleum Maat Schappij (N.K.P.M.) Port belonging to The Hague

Electrical Installation fitted by J.W. Bartholemew & Sons Pty. Ltd., Contract No. --- When fitted 1946

Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No

Have plans been submitted and approved System of Distribution Two wire Voltage of supply for Lighting 110

Heating --- Power --- Direct or Alternating Current, Lighting D.C. Power --- If Alternating Current state frequency --- Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off Yes Are turbine emergency governors fitted with a

trip switch as per Rule --- Generators, are they compound wound No, are they level compounded under working conditions ---

if not compound wound state distance between generators 6 ft. and from switchboard 9 ft. Where more than one generator is fitted are they

arranged to run in parallel No, 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 Yes and the results found as per rule Are the lubricating arrangements and the construction

of the generators as per rule Yes Position of Generators After end of engine room

---, is the ventilation in way of generators satisfactory Yes, are they clear of inflammable material Yes, if situated

near unprotected combustible material state distance from same horizontally --- and vertically ---, are the generators protected from mechanical

injury and damage from water, steam and oil Yes, are the bedplates and frames earthed Yes and the prime movers and generators in metallic

contact Yes Switchboards, where are main switchboards placed Engine room near after bulkhead

are they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steam

and oil Yes, if situated near unprotected combustible material state distance from same horizontally --- and vertically ---, what insulation

material is used for the panels "Misco-lite" 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 frame effectually earthed Yes

Is the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board Yes, individual fuses

to pilot and earth lamps, voltmeters, etc., Yes, locking of screws and nuts Yes, labelling of apparatus and fuses Yes, fuses on the "dead"

side of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches

D.P. Double-throw quick-break knife switch

and for each outgoing circuit D.P. Fuses (Slydlock, 50 amps)

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard Yes

ammeters Two voltmeters --- synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection --- Earth Testing, state means provided Earth lamps

PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	4	120	33.3	1000	Three "V" Belts from starbd. Main Engine Shaft		
	1	4	110	37	1000	Three "V" Belts from Aux. Engine Counter Shaft		
EMERGENCY						Main & Auxiliary Engines	Light Diesel	215° F
ROTARY TRANSFORMER								

[illegible][illegible]

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.

J. W. BARTHOLOMEW AND SONS LTD. LIMITED

Electrical Engineers.

Date 21/2/46.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 27 feet.

Minimum distance between electric generators or motors and steering compass 20 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 0.4 Ampères within feet from standard compass within feet from steering compass.

A cable carrying 2 Ampères 3 feet from standard compass 6 feet from steering compass.

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 Yes.

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

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

The above certified by Messrs Hay & Smith
Marine Surveyors & Compass Adjusters

Builder's Signature.

Date

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

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

The electrical installation of this vessel was built under the supervision of the Commonwealth Government, Ministry of Munitions, and the materials and workmanship are good.

It has now been examined generally and all circuits megger tested.

Installation examined and tested under working conditions and all found satisfactory.

Total Capacity of Generators 8 Kilowatts.

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

Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

FRI. 31 MAY 1946

See minute
on p. 11



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Foundation