

Rpt. 13.

No. 11325.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

24 FEB 1953

Date of writing Report... 21st Jan. 53 When handed in at Local Office... 11th Feb. 53 Port of... HONG KONG

No. in Survey held at... HONG KONG Date, First Survey... 13th Dec. 52 Last Survey... 17th Jan. 19 53

Reg. Book. 75654 on the S.S. "SAN EDUARDO" (Ex "TSINAN") (Number of Visits... 24...)

Built at... Hong Kong By whom built... Taikoo Dkyd. & Eng. Co. of H.K., Ltd. Yard No. 249 Tons {Gross... 2994 Net... 2100

Owners... Cambay Prince S.S. Co., Ltd. Port belonging to... Hong Kong When built... 1930

Electrical Installation fitted by... Taikoo Dkyd. & Eng. Co. of H.K., Ltd. Contract No. 249 When fitted... 1930

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 D.C. Voltage of supply for Lighting... 110

Heating... Power... Direct or Alternating Current, Lighting... Power... If Alternating Current state periodicity... Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off... Are turbine emergency governors fitted with a

trip switch as per Rule... Generators, are they compound wound... Yes, are they level compounded under working conditions...

if not compound wound state distance between generators... and from switchboard... 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

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... and the results found as per rule... Are the lubricating arrangements and the construction

of the generators as per rule... Position of Generators... Engine Room Plat. Stbd.

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... No, are the bedplates and frames earthed... Yes and the prime movers and generators in metallic

contact... Yes Switchboards, where are main switchboards placed... Eng. Room Stbd. Plat. level

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... No, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation

material is used for the panels... 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 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... spring washer 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...

DP CO Knife Switch 150 Amp. rating

and for each outgoing circuit... SP Knife Switch with fuse in each pole 30 Amp. Rating

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 1

ammeters... 2 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... Lamps

Switches, Circuit Breakers and Fuses, are they as per Rule... Yes, are the fuses an approved type... Yes, are all fuses labelled as

per Rule... No If circuit breakers are provided for the generators, at what overload current did they open when tested... None, are the reversed current

protection devices connected on the pole opposite to the equaliser connection... None, have they been tested under working conditions, and at what current

did they operate... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... Yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules... 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... are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... Yes Are paper insulated and varnished cambric insulated cables sealed at the ends... None

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	30	2	37/072	113	304	25'	Vir.	L.C.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULA- TION WITH.	HOW PROTECTED.
	No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rate.			
AUX. SWITCHBOARDS AND SECTION BOARDS ...	1						
Wireless - Batt. charge	1	7/036	10	24	170	Vir.	Arm
Engineers accom. fans	1	7/036	5	24	160	Vir.	"
Engine room lighting	1	7/036	15	24	60	Vir.	"
Poop Deck lighting	1	7/036	10	24	360	Vir.	"
Navigation Instrument panel	1	7/036	7	24	280	Vir.	"
Engineers accom. lighting	1	7/036	10	24	160	Vir.	"
1st class saloon	1	7/036	7	24	220	Vir.	"
Forecastle lighting	1	7/036	10	24	400	Vir.	"
2nd class saloon	1	7/036	15	24	120	Vir.	"
Refrigerator	1	7/036	8	24	290	Vir.	"
Workshop	1	7/036	16	24	200	Vir.	"

[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.

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric ~~generators~~ motors and standard compass 30 feet

Minimum distance between electric ~~generators~~ motors and steering compass 20 feet

The nearest cables to the compasses are as follows:—

A cable carrying 1/2 Ampères 10 feet from standard compass 5 feet from steering compass.

A cable carrying Ampères feet from standard compass 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.

Builder's Signature.

Date

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

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

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

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

The electrical equipment of this vessel was installed under the supervision of the Hong Kong Government during build, who are stated to be in possession of relevant Certificate. It has further been regularly under survey of the Marine Department since installation - the vessel until recently holding a Passenger Certificate.

Workmanship is good and the installation well maintained. A satisfactory insulation test was taken of all circuits and equipment at this time (Rpt. 9 No. 11325 refers).

The lay out as at present does not include (1) Navigation indicators or (2) Battery charge cut outs.

Total Capacity of Generators 30 Kilowatts.

The amount of Fee Charged on Rpt. 9

When applied for,

19

Travelling Expenses (if any) £

When received.

19

A. Y. Sinclair
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 21 APR 1955

Assigned