

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

23 MAY 1947
Received at London Office

Date of writing Report... 16.5.47 When handed in at Local Office... 17.5.47 Port of... TRIESTE

No. in Survey held at... Trieste Date, First Survey... Last Survey... 19...
Reg. Book.77594 on the... "LEE SANG" Tons { Gross 1655
Net 972

Built at... Lubeck By whom built... Henry Koch Yard No. - When built... 1907

Owners... E. M. Trattles Port belonging to... Hong Kong

Electrical Installation fitted by... Contract No. - When fitted -

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

Have plans been submitted and approved... System of Distribution... 2 wire D.C. Voltage of supply for Lighting... 100

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... 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

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... Yes Position of Generators... One in Eng. Rm. Starboard.

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... In Eng. Rm. Starboard.

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... Porcelain & mica, if of synthetic insulating material is it an Approved Type... 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...

Double pole linked with fuse on each pole.

and for each outgoing circuit... Double pole linked with fuse on each pole

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 is the ammeter connected on the pole opposite to the

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


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and where are the controlling switches fitted —, are all fittings suitably ventilated Yes
are all fittings and accessories constructed and installed as per Rule Yes Searchlight Lamps, No. of None, whether fixed or portable —
—, are their fittings as per Rule — Heating and Cooking, is the general construction as per Rule None
are the frames effectually earthed —, are heaters in the accommodation of the convection type — Motors, are all motors constructed and
installed as per Rule None and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water
steam and oil —, if situated near unprotected combustible material state minimum distance from same horizontally — and vertically —
Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing — Have certificates of test for motors and
100 BHP intended for essential services been supplied and the results found as per Rule — Control Gear and Resistances, are they constructed and
fitted as per Rule — Lightning Conductors, where required are they fitted as per Rule Steel Mast Ships carrying Oil having a Flash Point
less than 150° F. Have all the special requirements of the Rules for such ships been complied with —, are all fuses of the cartridge type —
are they of an approved type — If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof
type — Spare Gear, if the vessel is for open sea service have spares been provided as per Rule Yes, are they suitably stored in d
situations Yes Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory Yes

PARTICULARS OF GENERATING PLANT.							WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY		
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	1	7.5	100	75	500	Steam		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Fols.	Sectional Area or No. and Dia. of Strands. <small>Sq. ins. or sq. mm.</small>	In the Circuit.	Rals.			
MAIN GENERATOR	7.5	1	40	75	85	12	Butter	L.C. & Steel braid
" " EQUALISER	Provision has been made on the Switchboard for fitting a second dynamo at some future date but not to run in parallel.							
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

AUX. SWITCHBOARDS AND SECTION BOARDS ...							
Engine Room	1	5	16	25	30	Rubber	L.C. & Steel brided
Accommodation	1	10	25	38	60	"	"
Passenger Cabin	1	20	50	54	60	"	"
Galley etc	1	10	30	38	80	"	"
Living Cabin	1	10	20	38	200	"	"

WIRELESS	NAVIGATION LIGHTS	LIGHTING AND HEATING	WATER	WATER	WATER	WATER	WATER	WATER
1	5	16	25	90	Rubber	L.C. & steel braided		
1	1.3	4	5	100	"	"		
1	1	\$5	5	-	"	L.C.		

[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 or motors and standard compass 60'

Minimum distance between electric generators or motors and steering compass 55'

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères 5 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 —

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 throughout, tried under working conditions and satisfactory insulation tests obtained.
In my opinion the installation is such as could be accepted on board a vessel classed with the Society.

Noted SW 2/6/47.

Total Capacity of Generators 7.5 Kilowatts.

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

John M. Lee
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FEB 13 JUN 1947

Assigned See F.E. mch. xph