

Report on Electrical Equipment.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

24 APR 1950

Received at London Office

Date of writing Report 4th April 1950. When handed in at Local Office 21st April 1950. Port of Gothenburg.

Survey held at Kalmar Date, First Survey 10th February Last Survey 29th March 1950.
No. in Reg. Book. (Number of Visits 5)on the Motorship "LUCIANO CASTRO" Approximate Tons {Gross 600
Net 330

Built at Kalmar By whom built Kalmar Varv Yard No. 364 When built 1950

Owners Luciano Castro Cia. Ltda. Port belonging to Santos

Electrical Installation fitted by A-B. Ernst Aldén & Co. Generator ~~XXXXXX~~ Nos. 11619-20 When fitted 1950

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 Yes System of Distribution 2 wire Voltage of supply for Lighting 220

Heating --- Power 220 Direct or Alternating Current, Lighting D.C. Power D.C. 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 Yes are they level compounded under working conditions Yes

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 Yes 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 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 1 on port, and 1 on starboard side of the engine room

floor 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 Aft on the engine room floor

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 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 A double pole circuit breaker

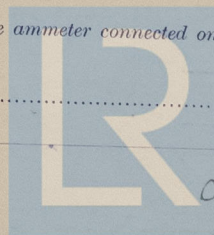
with overload and reversed current trips and a single pole equaliser switch.

and for each outgoing circuit ---

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 4

ammeters 3 voltmeters --- synchronising devices For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection Yes Earth Testing, state means provided Ohm - meter



© 2021

Lloyd's Register
Foundation

014835-014842-0231/2

PARTICULARS OF GENERATING PLANT.

| DESCRIPTION OF GENERATOR | No. of | R A T E D A T | | | | D R I V E N B Y | W H E R E D R I V E N B Y A N I N T E R N A L COMBUSTION ENGINE | |
|--------------------------|--------|-----------------|--------|----------|----------------|-------------------|---|----------------------|
| | | Kilowatts. | Volts. | Ampères. | Revs. per Min. | | Fuel Used. | Flash Point of Fuel. |
| MAIN | 2 | 25 | 220 | 114 | 1000 | Diesel engine | Diesel oil | Above 150° F. |
| EMERGENCY | --- | | | | | | | |
| ROTARY TRANSFORMER | --- | | | | | | | |

| ALL IMPORTANT MOTORS TO BE ENUMERATED. | | | | No. | B. H. P. | | | | | | | | |
|---|---|-----|---|-----|----------|---|-----|-------|--------|--------------------------|---|---|---|
| Manoeuvring air compressor | 1 | 7.5 | 1 | 10 | 31 | ✓ | 38 | 12 | Rubber | Lead covered & armoured. | | | |
| Ballast pump | 1 | 7.5 | 1 | 6 | 31 | ✓ | 29 | 11 | " | " | " | " | " |
| Fire- and sanitary pump | 1 | 4.5 | 1 | 4 | 19 | ✓ | 21 | 10 | " | " | " | " | " |
| Engine room fan | 1 | 1.7 | 1 | 1.5 | 6 | ✓ | 7 | 6 | " | " | " | " | " |
| Cargo hold fans | 2 | 2.7 | 1 | 1.5 | 6 | ✓ | 7 | 12-35 | " | " | " | " | " |
| Hydrofor pumps | 2 | 0.5 | 1 | 1.5 | 6 | ✓ | 7 | 3 | " | " | " | " | " |
| Fuel oil transfer pump | 1 | 0.5 | 1 | 2.5 | 3 | ✓ | 13 | 10 | " | " | " | " | " |
| Windlass | 1 | 16 | 1 | 16 | 64 | ✓ | 78 | 90 | Paper | " | " | " | " |
| Inches Nos. 1 and 2 | 2 | 16 | 1 | 50 | 84 | ✓ | 159 | 60 | " | " | " | " | " |
| Inch No. 3 | 1 | 16 | 1 | 16 | 64 | ✓ | 78 | 40 | " | " | " | " | " |
| Warping winch | 1 | 5 | 1 | 6 | 21 | ✓ | 29 | 8 | Rubber | " | " | " | " |

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.

Aktiebo.aget
Ernst Aldén & C:o

Electrical Engineers. Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass 8 Metres.
Minimum distance between electric generators or motors and steering compass 10 Metres.
The nearest cables to the compasses are as follows:—
A cable carrying 0.3 Ampères 10 feet from standard compass 3 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 0 degrees on every course in the case of the
standard compass, and 0 degrees on every course in the case of the steering compass.

KALMAR VARV

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.)

This electrical installation has been fitted on board under my inspection and to my satisfaction and has been tested under working conditions and found satisfactory.

An electrically driven oil fuel pump, not shown on the approved plans, has been fitted, and the motor has been provided with remote control.

Test sheets of both generators have been forwarded as per Manchester Surveyors' reports Nos. 13621 and 13737.

Certificates for the motors are attached.

Noted on 10/5/50.

Total Capacity of Generators 50 Kilowatts.

| | | |
|--------------------------------------|------------|---------------------------------|
| The amount of Fee | Kr. 860:00 | When applied for, 21/4 19.50 |
| Travelling Expenses (if any) Kr. --- | | When received --- 19.--- |

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI, 12 MAY 1950

Assigned See minute on

for rth.

