

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 11 APR 1947

Received at London Office.....

Date of writing Report... 20-3-47... When handed in at Local Office... 1-4-47... Port of... Belfast

No. in Survey held at... Belfast... Date, First Survey... 7 Nov. 1946... Last Survey... 27-3-1947
Reg. Book... 87902 (Supp.)... (Number of Visits... 15...)

on the... MV "LINGULA" Tons { Gross... 6220 Net... 3600

Built at... Belfast By whom built... Harland & Wolff Ltd Yard No... 1347 When built... 1946-7

Owners... Anglo-Saxon Petroleum Co. Ltd. Port belonging to... London

Electrical Installation fitted by... Harland & Wolff Ltd Contract No... 1347 When fitted... 1947

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

Have plans been submitted and approved... yes System of Distribution... Two Wire Voltage of supply for Lighting... 110

Heating... Power... 110 Direct or Alternating Current, Lighting... Direct Power... Direct 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... yes Are turbine emergency governors fitted with a

trip switch as per Rule... no 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... 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... no Have certificates of

test for machines under 100 kw. been supplied... yes and the results found as per rule... yes Are the lubricating arrangements and the construction

of the generators as per rule... yes Position of Generators... Motor Room Tank Top 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... Motor Room Platform 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... Sindanyo (Black) 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...

300 Amp Double Pole Change Over Switches with 300 Amp Fuses on each Pole

and for each outgoing circuit... Double Pole Change Over Switches 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... 2 Lamp System with 2 way D.P Selector Switch

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... yes If circuit breakers are provided for the generators, at what overload current did they open when tested... are the reversed current

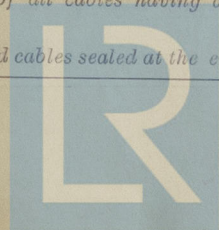
protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current

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... yes

state maximum fall of pressure between bus bars and any point under maximum load... 4.6V 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... no



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Foundation

11	GENERATOR ...								
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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 March 27th '47

COMPASSES.

Minimum distance between electric generators or motors and standard compass 25 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 0.16 Ampères on ~~feet from~~ standard compass 10 feet from steering compass.

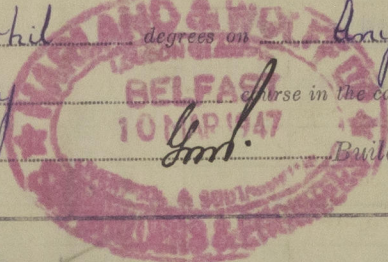
A cable carrying 0.16 Ampères 10 feet from standard compass on ~~feet from~~ steering compass.

A cable carrying 40 Ampères 8 feet from standard compass 8 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 27. 3. 47

Is this installation a duplicate of a previous case yes

If so, state name of vessel

Mr. V^{rs} Lydia Linga - Lepton

Plans. Are approved plans forwarded herewith no

If not, state date of approval

6th February 1946

Certificates. Are certificates of test for motors engaged on essential 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 equipment of this vessel has been fitted on board under special survey, tested under full working conditions and found satisfactory. Materials and workmanship are good.

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ 36 : - : When applied for, 9th apr 1947

Travelling Expenses (if any) £ - : - : When received, 19

R. S. Kurchison.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FILE 9 MAY 1947

Assigned Su F.E. mch. rpt