

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.

AUG 12 1939

Date of writing Report... 28-7-1939 When handed in at Local Office... 8/8/39 Port of... Newcastle-on-Tyne

No. in Survey held at... Newcastle Reg. Book. Date, First Survey... 31 March Last Survey... 25 July 1939 (Number of Visits... 10)

35327 on the... M.V. 'TORINIA' Tons { Gross... 10330 Net...

Built at... Newcastle (Wallsend) By whom built... Swan Hunter & Wigham R. Yard No... 1561 When built... 1939

Owners... Anglo-Saxon Petroleum Co Port belonging to... LONDON

Electrical Installation fitted by... Sunderland Forge & Eng'g Co. Contract No... When fitted... 1939

Is vessel fitted for carrying Petroleum in bulk... YES Is vessel equipped with D.F... YES E.S.D... YES Gy.C... Sub.Sig...

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 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... No are shunt field regulators provided... YES Is the compound winding connected to the negative or positive pole

Positive 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... YES Are the lubricating arrangements and the construction

of the generators as per rule... YES Position of Generators... Engine room starboard side

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 starboard side

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... Ebony 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... 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

changeover Knife switches and double pole fuses

and for each outgoing circuit... Double pole changeover Knife switch & double pole

fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... 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 connected to earth via D.P. switches & fuses

situations YES Insulation Tests, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory YES

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.

Messrs Sunderland Engineering Works Electrical Engineers. Date *29 July 1934*
H. V. Garney

COMPASSES.

Minimum distance between electric generators or motors and standard compass *200'*

Minimum distance between electric generators or motors and steering compass *200'*

The nearest cables to the compasses are as follows:—

A cable carrying *25* Ampères *inside* feet from standard compass *inside* 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.

Wm B. Brockie Builder's Signature. Date *Aug. 1st 1934*

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 installation has been fitted under special survey.
The workmanship and the materials used were good.
On completion the installation was tested under
working conditions, the insulation resistances of all circuits
measured, the general tests for amperage and grounding
and found satisfactory.
The installation is, in my opinion, suitable
for a classed vessel.*

*Noted
LJ
15/8/34*

Total Capacity of Generators *40* Kilowatts.

The amount of Fee *See 25* £ *25* : - : When applied for, *4-8-1934*

Travelling Expenses (if any) £ : : When received, *11-8-1934*

W. H. Bowen
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE 15 AUG 1934*

Assigned *See KE machine, rpt.*

2m.10.33.—Transfer. (MADE IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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