

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 23rd Sept 1941 When handed in at Local Office 8th Oct 1941 Port of Grimsey

No. in Survey held at Gainsborough Date, First Survey 14.7.41 Last Survey 23rd Sept 1941
Reg. Book. (Number of Visits 4)

on the "EMPIRE FORD" Tons { Gross 310
Net.....

Built at Gainsborough By whom built J. S. Nelson (Gainsborough) Ltd Yard No. 1520 When built 1941

Owners Ministry of War Transport (Messrs Robert Rix & Sons) Port belonging to Hull

Electrical Installation fitted by The Sunderland Forge & Engineering Co., Ltd Contract No. 838 When fitted 1941

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

Have plans been submitted and approved Yes System of Distribution Parallel Constant Pressure ^{2 Wire} Voltage of supply for Lighting 110

Heating ☒ Power ☒ Direct or Alternating Current, Lighting Direct 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 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 ☒ Have certificates of

test for machines under 100 kw. been supplied Yes ^{not received} 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 Starboard side of Engine Room

, 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, adjacent to generators

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 Indanap, 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.....

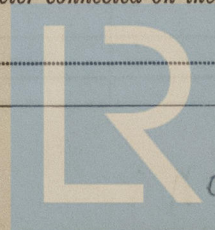
Double pole knife switch

and for each outgoing circuit Double pole linked change over switches & fuses

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

ammeters 2 voltmeters 2 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 & switches



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PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	4 (each)	110	3636 (each)	1400	7 BHP Vertical Solid Injection Engines	Heavy Oil	Above 150°F
EMERGENCY ...								
ROTARY TRANSFORMER								

[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.

J. Barber Branch Manager
The Sunderland Ship & Eng. Co Ltd

Electrical Engineers.

Date

Sept 24th 1941

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass..... About 30' 0"

The nearest cables to the compasses are as follows:—

A cable carrying 36 Ampères feet from standard compass about 7 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 See Gms. Lr 17/10/41.

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 degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature.

Date

Is this installation a duplicate of a previous case Yes If so, state name of vessel Rimblott Yard No 635

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 fitted under special survey in accordance with the Rules and approved plans, and has been subjected to the tests prescribed by the Rules with satisfactory results.

The materials & workmanship are good.

The equipment is eligible in my opinion for a vessel classed with this Society.

The main head lamp is being supplied at Hull & will be fitted before the vessel leaves that port. The compass has also to be adjusted with & without the electrical installation at work.

The Surveyors have been advised.

Noted
L.H.
21/10/41.

Total Capacity of Generators 8 Kilowatts.

The amount of Fee £25/- 10 : 0 : 0 When applied for, 8/10/1941.

Travelling Expenses (if any) £ 13 : 6 : 0 When received, 19.....

Surveyor

Surveyor to Lloyd's Register of Shipping.

Committee's Minute 24 OCT 1941

Assigned See Gms. Lr 21400



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