

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 15th May 43 ... 19...⁴³ When handed in at Local Office... 24th 5th 43 ... 19...⁴³ Port of... GLASGOW

No. in Survey held at... GREENOCK ... Date, First Survey... 14th Feb 1943 ... Last Survey... 6th May 43 ... 19...⁴³
(Number of Visits.....)

Reg. Book. 87829 on the... M.V. NINELLA ... Tons { Gross.....
Net.....

Built at... GLASGOW ... By whom built... BLYTHWOOD S.B.C. LTD ... Yard No... 70 ... When built... 1943

Owners... ANGLO-SAXON PETROLEUM CO. LTD ... Port belonging to... LONDON

Electrical Installation fitted by... SUNDERLAND FORGE & ENGINEERING CO. LTD ... Contract No... 70 ... When fitted... 1943

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... —

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... D.C. ... Power... D.C. ... 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... — ... 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 ... 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... In 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... Near 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... Interolux ... 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... D.P. Switch and fuses

... and for each outgoing circuit... D.P. Switch and fuses

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

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... — ... state maximum fall of pressure between bus bars and any point under maximum load... — ... 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... Yes

LIGHTING 4.1 VOLTS.
POWER 5.2 VOLTS.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drenched or condensed moisture, weatherproof Yes. Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present. Yes, if so, how are they protected. Flameproof fittings installed in pump rooms in accordance with Rule requirements and where are the controlling switches fitted in accommodation, are all fittings suitably ventilated Yes, are all fittings and accessories constructed and installed as per Rule. Yes. Searchlight Lamps, No. of _____, whether fixed or portable. _____, are their fittings as per Rule. _____ Heating and Cooking, is the general construction as per Rule. _____, are the frames effectually earthed. _____, are heaters in the accommodation of the convection type. _____ Motors, are all motors constructed and installed as per Rule. Yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil. Yes, if situated near unprotected combustible material state minimum distance from same horizontally. _____ and vertically. _____ Are motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment. _____ Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing. _____ Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule. Yes Control Gear and Resistances, are they constructed and fitted as per Rule. Yes Lighting Conductors, where required are they fitted as per Rule. _____ 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. Yes are all fuses of the cartridge type. Yes are they of an approved type. Yes Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. Yes Are the cables lead covered as per Rule. Yes Spare Gear, if the vessel is for open sea service have spares been provided as per Rule. Yes, are they suitably stored in dry situations. Yes Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory. Yes

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 ...	1	25	110	227	400	Steam engine.		
	1	25	110	227	400	I.C. engine.		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	25	1	37/07R	227	246	60	V.C.	L.C.A.
11 EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
11 GENERATOR								

[illegible]

LOADING AND UNLOADING, L.C., CRANES.									
WIRELESS	1	7/064	15	46	80	RUBBER	L.C.		
NAVIGATION LIGHTS	1	7/064	83	31	85	RUBBER	L.C.		
LIGHTING AND HEATING									
ENGINE ROOM S.B. WORKSHOP	1	19/064	69	135	150	V.C.	L.C.A.		
AFT LIGHTING S.B.	1	19/064	73	135	160	V.C.	L.C.A.		
SEARCHLIGHT (WAINS ONLY)	1	19/064	60	135	184	V.C.	L.C.		
FORECASTLE LTS & POWER	1	7/064	33.9	46	368	RUBBER	L.C.A.B.		
CARGO LTS D.B.	1	7/064	3.3	31	80	RUBBER	L.C.A.		
ENGINE ROOM POWER S.B.	1	7/064	26	46	80	RUBBER	L.C.A.		
ENGINE ROOM LTS S.B.	1	19/064	44	135	126	V.C.	L.C.A.		

[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.

P.Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 21.5.43

COMPASSES.

Minimum distance between electric generators or motors and standard compass 30 feet

Minimum distance between electric generators or motors and steering compass 24 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères led into ~~from~~ standard compass led into ~~from~~ steering compass.

A cable carrying 8.6 Ampères 6 feet from standard compass 8 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.

BLYTHSWOOD SHIPBUILDING CO., LTD.

Builder's Signature.

Date

24 May 43

Is this installation a duplicate of a previous case Yes If so, state name of vessel M.V. NARANIO

Plans. Are approved plans forwarded herewith No If not, state date of approval 19/5/42

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith Yes

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 working conditions and found satisfactory. The materials and workmanship are good.

Noted

29/5/43

Total Capacity of Generators 50 Kilowatts.

The amount of Fee ... £ 27 : 10 :

When applied for,

25 MAY 1943

Travelling Expenses (if any) £ : :

When received,

19

S. G. Fiddler

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 25 MAY 1943

SEE ACCOMPANYING MACHINERY REPORT.

Assigned



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Foundation