

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

7 JUL 1947

Date of writing Report 3rd July 1947 When handed in at Local Office 19... Port of ANTWERP

No. in Survey held at ANTWERP. Date, First Survey 14th August 46 Last Survey 9th May 1947
Reg. Book. (Number of Visits 3)

on the TRAWLER "WINSTON SPENCER CURENIA" (EX. ADMIRALTY TRAWLER "SIGGAL") Tons (Gross 472 Net 167)

Built at Port Glasgow. By whom built FERGUSON BROS. (PIPING) LTD. Yard No. 369 When built 1945

Owners H.V. OOSTENDSCHE REEDERIJ. Port belonging to OSTEND

Electrical Installation fitted by L'ELECTRO NAVALE ET INDUSTRIELLE Contract No. When fitted 1947

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

Have plans been submitted and approved YES. System of Distribution TWO WIRE. Voltage of supply for Lighting 110

Heating 110. Power 110. Direct or Alternating Current, Lighting DC. Power DC. 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 -, 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 - and the results found as per rule -. Are the lubricating arrangements and the construction of the generators as per rule -. Position of Generators IN ENGINE RM.

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 GENERATOR.

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 MICANISED BARS, 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 -.

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 VP. KNIFE PATTERN SWITCHES & FUSES.

and for each outgoing circuit VP. CHANGE OVER KNIFE PATTERN SWITCH & 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.

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 1.105, 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.

with insulating compound... or waterproof insulating tape... YES. Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical damage... YES, are cables laid under machines or floorplates... if so, are they adequately protected... Are cables in machinery spaces, galleys, laundries, etc., lead covered... YES or run in conduit... State how the cables are supported and protected. CLIPPED TO STEEL TRAYS.

Are all lead sheaths, armouring and conduits effectually bonded and earthed... YES. Refrigerated chambers, are the cables and fittings as per Rule... Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands... YES, where unarmoured cables pass through beams, etc., are the holes effectively bushed... YES and with what material... WOOD. Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule... YES. Emergency Supply, state position... and method of control...

Navigation Lamps, are they separately wired... YES controlled by separate double pole switches... YES and fuses... YES. Are the switches and fuses in a position accessible only to the officers on watch... YES, is an automatic indicator fitted... NO. Secondary Batteries, are they constructed and fitted as per Rule... are they adequately ventilated... what is the battery capacity in ampere hours...

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof... YES. Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present... NO, if so, how are they protected...

and where are the controlling switches fitted... are all fittings suitably ventilated...

are all fittings and accessories constructed and installed as per Rule... Searchlight Lamps, No. of... whether fixed or portable... are their fittings as per Rule... Heating and Cooking, is the general construction as per Rule... ADD PART.

are the frames effectually earthed... YES, are heaters in the accommodation of the convection type... YES. 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... 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... Control Gear and Resistances, are they constructed and fitted as per Rule... Lightning 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... are all fuses of the cartridge type... are they of an approved type... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships... Are the cables lead covered as per Rule... 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.

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

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	1	20	115	174	500	STEAM ENGINE.		
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR CABLES.

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	20	1	19/064	174	135	30	Y.C.	A.C.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

MAIN DISTRIBUTION CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
	No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
AUX. SWITCHBOARDS AND SECTION BOARDS	1						

LIGHTING AND HEATING, ETC., CABLES.

WIRELESS	1	7/036	24	120	REAR	A.C.
NAVIGATION LIGHTS	1	3/029	7	120	do	A.C.
LIGHTING AND HEATING	1	7/036	26	25	54	Y.C.
RET HEATING.						

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
ENG. RM VENT FAN.	1	1 1/2	1	7/029	13-4	15	30	Y.C.

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.....

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 16 FT.

Minimum distance between electric generators or motors and steering compass..... 16 FT.

The nearest cables to the compasses are as follows:—

A cable carrying 17 Ampères 12 feet from standard compass 8 feet from steering compass.

A cable carrying 18 Ampères ~~10~~ INTO feet from standard compass ~~10~~ INTO 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

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 mil 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..... If so, state name of vessel

Plans. Are approved plans forwarded herewith..... 24/12/46 If not, state date of approval.....

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 has been efficiently fitted on board this vessel in accordance with Rule requirements. It has been tested under full working conditions and found satisfactory. Workmanship & materials all good.

Total Capacity of Generators..... 20 Kilowatts.

The amount of Fee Frs. 2650- { When applied for, 3-7-1947
 Travelling Expenses (if any) £ : : { When received. 19.....

W. J. ...
 Surveyor to Lloyd's Register of Shipping.

FRI. 22 AUG 1947

Committee's Minute

Assigned.....

5014.39.—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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