

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

4 NOV 1941

Date of writing Report 2 Sept 41 When handed in at Local Office 6 Sept 41 Port of Philadelphia

No. in Survey held at Lehigh Pa Date, First Survey 10 June Last Survey 9 Aug 1941
Reg. Book. on the S/S STANVAC WELLINGTON (Number of Visits 6)

Built at Lehigh Pa By whom built Sm 837 DD Co Yard No. 210 Tons { Gross 10013
Net 6397

Owners Petroleum Shipping Co Port belonging to Panama

Electric Light Installation fitted by Sm 837 DD Co Contract No. 210 When fitted 1941

System of Distribution Two wire mains Two wire branches

Pressure of supply for Lighting 110 volts, Heating Direct Power 230 volts.

Direct or Alternating Current, Lighting Direct Power Direct

If alternating current system, state frequency of periods per second

Has the **Automatic Governor** been tested and found efficient when the whole load is suddenly thrown on or off Yes

Generators, do they comply with the requirements regarding rating Yes, are they compound wound Yes

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator Yes

Where more than one generator is fitted are they arranged to run in parallel Yes, is an adjustable regulating resistance fitted in series with each shunt field Yes

Are all terminals accessible, clearly marked, and furnished with sockets Yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes

Position of Generators Are the lubricating arrangements of the generators as per Rule Yes

is the ventilation in way of the generators satisfactory Yes, are they clear of all inflammable material Yes

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators Yes

and are the generators protected from mechanical injury and damage from water, steam or oil Yes

are their axes of rotation fore and aft Yes

Earthing, are the bedplates and frames of the generating plant efficiently earthed Yes are the prime movers and their respective generators in metallic contact Yes

Main Switch Boards, where placed On same flat as generators

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard Yes

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes Yes

are they protected from mechanical injury and damage from water, steam or oil Yes, if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards Yes

are they constructed wholly of durable, non-ignitable non-absorbent materials Yes, is all insulation of high dielectric strength and of permanently high insulation resistance Yes

if semi-insulating material is used, are all conducting parts insulated from the slab with mica or microne or other non-hygroscopic insulating material, and the slab similarly insulated from its framework Yes

and is the frame effectively earthed Yes

Are the fittings as per rule regarding:— spacing or shielding of live parts Yes

accessibility of all parts Yes, absence of fuses on back of board Yes, proportion of omnibus bars Yes

individual fuses to voltmeter, pilot or earth lamp Yes, connections of switches Yes

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches 1600 amp 3 pole

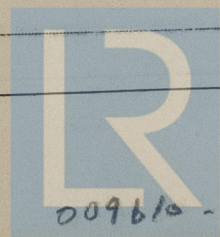
A. C. B. 1600 3 pole line switch (non fused)

Instruments on main switchboard 5 ammeters 4 voltmeters synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system Earth lamps.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules Yes

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule Yes



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Cables: Single, twin, concentric, or multicore all are the cables insulated and protected as per Tables IV or V of the Rules Yes

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 5%

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets Yes

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound Yes

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage Yes

Support and Protection of Cables, state how the cables are supported and protected By straps spaced 14" horizontally & 18" vertically.

If cables are run in wood casings, are the casings and caps secured by screws None, are the cap screws of brass Yes are the cables run in separate grooves Yes If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII Yes

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements Yes

Joints in Cables, state if any, and how made, insulated, and protected None

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed Yes state the material of which the bushes are made Lead

Earthing Connections, state what earthing connections are fitted and their respective sectional areas Yes are their connections made as per Rule Yes

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule Yes

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven None

Navigation Lamps, are these separately wired Yes, controlled by separate switch and separate fuses Yes, are the fuses double pole Yes are the switches and fuses grouped in a position accessible only to the officers on watch Yes has each navigation lamp an automatic indicator as per Rule Yes

Secondary Batteries, are they constructed and fitted as per Rule None

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and where exposed to drip or condensed moisture, watertight Yes are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected None are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected None how are the cables led Yes where are the controlling switches situated Yes

Searchlight Lamps, No. of 1, whether fixed or portable Fixed, are their fittings as per Rule Yes

Arc Lamps, other than searchlight lamps, No. of None, are their live parts insulated from the frame or case Yes, are their fittings as per Rule Yes

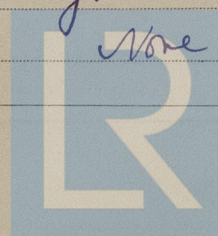
Motors, are their working parts readily accessible Yes, are the coils self-contained and readily removable for replacement Yes are the brushes, brush holders, terminals and lubricating arrangements as per Rule Yes are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material Yes are they protected from mechanical injury and damage from water, steam or oil Yes are their axes of rotation fore and aft Yes if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated forced draught, drip or flame proof type but just self ventilated, if not of this type, state distance of the combustible material horizontally or vertically above the motors and Yes

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule Yes

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule Yes

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings Yes

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office None



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CARGO LIGHTS

ARC LAMPS

HEATERS

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. am. ere.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	Galley Power Panel	Units							
	BALLAST PUMP		1500	37	0.22	191.9	150	Varnish & canvas	Lead & armoured
	Machine shop Power Panel		0400	19	0.22	9.4	500	" "	"
	MAIN BILGE LINE PUMPS		0225	7	0.64	38.4	100	" "	"
	Machine shop Power Panel								
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP								
1	Electric range	1	0750	19	0.22	97	20	" "	"
	SANITARY PUMP								
Galley	Stock Kettle	1	0100	7	0.44	22	30	" "	"
Power	CIRC. SEA WATER PUMPS	2	0100	7	0.44	22	60	" "	"
Panel	Water pumps	1	0070	7	0.36	13	60	" "	"
	CIRC. FRESH WATER PUMPS	2	0030	1	0.64	1.2	60	Rubber	"
	Coffee urn	1	0070	7	0.36	8.7	50	Varnish	"
	AIR COMPRESSOR	2	0030	1	0.64	1.0	40	Rubber	"
	Refrigerator	1	007	7	0.36	8.7	50	Varnish	"
	FRESH WATER PUMP	2	0030	1	0.64	1.0	40	Rubber	"
	Food warmer	1	007	7	0.36	8.7	50	Varnish	"
	ENGINE TURNING GEAR	2	0030	1	0.64	1.0	40	Rubber	"
	Exhaust blower	1	0100	7	0.44	27	40	Varnish	"
	ENGINE REVERSING GEAR	1	0100	7	0.44	27	40	Varnish	"
	Water heater								
	LUBRICATING OIL PUMPS								
Machine	OIL FUEL TRANSFER PUMP	1	0030	1	0.64	2.4	50	Rubber	"
shop	Drinking water pump	1	0030	1	0.64	2.4	50	Rubber	"
Power	WINDLASS	1	0030	1	0.64	1.2	20	" "	"
Panel	Refrigerator	1	007	7	0.36	8.8	40	Varnish	"
	WINCHES, FORWARD								
	Winches, aft								
	STEERING GEAR								
Machine	Drill press	1	0030	1	0.64	4.6	60	Rubber	"
shop	(a) MOTOR GENERATOR	1	007	7	0.36	12.6	50	Varnish	"
Power	(b) MAIN MOTOR	1	007	7	0.36	12.6	40	" "	"
Panel	Workshop motor	1	007	7	0.36	8.6	60	" "	"
	Grinder								
	VENTILATING FANS								



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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	300	240	1565	1200	Steam Turbine		
AUXILIARY ...	1	50	240	260	1200	"		
EMERGENCY ...								
ROTARY TRANSFORMER	2	25	110	260	1750	Compound wound motor		

LIGHTING AND HEATING CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	2	2.0752	254	.103	1165	50	Varnish & Cambic	Leaded & armoured
	EQUALISER CONNECTIONS	1	1.0375	127	.103	932	50	"	"
	AUXILIARY GENERATOR	1	.1964	37	.083	260	20	"	"
	EMERGENCY GENERATOR	1	.200	37	.083	184	20	"	"
	ROTARY TRANSFORMER	1	.200	37	.083	260	20	"	"
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	1	.0600	19	.064	80	40	"	"
	BOILER ROOM	1	.0400	19	.052	75	80	"	"
	ACCOMMODATION Messing	1	.075	19	.072	100	500	"	"
	Aft quarters poop	1	.0400	19	.052	75	100	"	"
	" " upper deck	1	.0400	19	.052	75	180	"	"
	Probs combustion control	1	.007	7	.026	10	70	"	"
	Gyro compass	1	.0145	7	.052	15	575	"	"
	Fachometer	1	.0225	7	.064	20	575	"	"
	Shore line	1	.075	19	.072	100	120	"	"
	"	1	.250	37	.093	200	120	"	"
	WIRELESS	1	.0225	7	.064	20	480	"	"
	SEARCHLIGHT								
	MASTHEAD LIGHT								
	SIDE LIGHTS	1	.007	7	.026	2	580	"	"
	COMPASS LIGHTS								
	POOP LIGHTS								
	CARGO LIGHTS								
	ARC LAMPS								
	HEATERS Water	1	.0145	7	.052	27	180	"	"

MOTOR CONDUCTORS.

Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP								
	ENGINE ROOM	1	.0145	7	.052	39	130	Varnish & Cambic	Leaded & armoured
	MAIN BILGE LINE PUMPS	1	.250	37	.093	294	100	"	"
	GENERAL SERVICE PUMP	1	.0145	7	.052	39	90	"	"
	EMERGENCY BILGE PUMP	2	.0145	7	.052	39	90	"	"
	SANITARY PUMP	1	.0145	7	.052	39	90	"	"
	MAIN CONDENSER	1	.250	37	.093	275	110	"	"
	CIRC. SEA WATER PUMPS	1	.040	19	.052	18	75	"	"
	CIRC. FRESH WATER PUMPS	1	.040	19	.052	18	110	"	"
	AIR COMPRESSOR	1	.0030	1	.064	2.4	130	Rubber cambic	"
	FRESH WATER PUMP	1	.0145	7	.052	39	80	Varnish	"
	ENGINE TURNING GEAR	1	.0145	7	.052	39	160	"	"
	ENGINE REVERSING GEAR	2	.040	19	.052	58	170	"	"
	LUBRICATING OIL PUMPS	1	.15	37	.072	147	65	"	"
	OIL FUEL TRANSFER PUMP	2	.0145	7	.052	25.2	165	"	"
	WINDLASS	2	.075	19	.072	94	120	"	"
	WINCHES, FORWARD	3	1.1781	91	.1284	700	70	"	"
	WINCHES, AFT	1	.007	7	.026	12.6	100	"	"
	STEERING GEAR	2	.200	37	.083	220	65	"	"
	Cargo lifting								
	(a) MOTOR GENERATOR	2	.1478	37	.072	95	195	"	"
	(b) MAIN MOTORS	1	.0032	1	.064	8.6	165	Rubber	"
	WORKSHOP MOTOR	2	.007	7	.026	4.6	55	Varnish	"
	VENTILATING FANS	1	.007	7	.026	4.6	160	"	"
	Boiler room	1	.007	7	.026	6.6	65	"	"
	Pump room	1	.0030	1	.064	1.2	25	Rubber	"
	Generator flat	1	.0145	7	.052	39	60	Varnish	"
	Aux condenser pump	1	.0030	1	.064	6.6	40	Rubber	"
	Well drain pump	1	.0030	1	.064	4.6	130	"	"
	Wash water	1	.0145	7	.052	39	170	Varnish	"
	Ice machine								

All Conductors are of annealed copper conforming to British Standard Specification No. 7.

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

T. M. Jackson

Electrical Engineers.

Date

Sept 2 - 41

COMPASSES.

Distance between electric generators or motors and standard compass

10'

Distance between electric generators or motors and steering compass

10'

The nearest cables to the compasses are as follows:—

A cable carrying 6.6 Ampères 10 feet from standard compass 10 feet from steering compass.

A cable carrying 1.5 Ampères 10 feet from standard compass 10 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 0° degrees on 360° course in the case of the standard compass, and 0° degrees on 360° course in the case of the steering compass.

T. M. Jackson

Builder's Signature.

Date

Sept 2 - 41

Is this installation a duplicate of a previous case

Yes

If so, state name of vessel

STANYAC MELBOURNE

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted under Special Survey, and in accordance with the approved plans. The workmanship & materials are good. The installation has been tried out under full power & found satisfactory.

Noted

7/11/41

Total Capacity of Generators

650

Kilowatts.

The amount of Fee

\$ 743 25
\$ 6 00

When applied for,
18 Sept 1941
When received,
19

Travelling Expenses (if any) £

W. M. Ham

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK OCT 1 1941

24.8

Assigned

Elec. light.



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