

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

18 MAY 1949

Date of writing Report 8th April, 1949 When handed in at Local Office 8th April, 1949 Port of PHILADELPHIA, PA.

No. in Survey held at Chester, Pa. Date, First Survey 24 Jan. Last Survey 16th March 1949 Reg. Book.

on the S.S. "KUWAIT"

(Number of Visits 22)

Tons { Gross Net

Built at Chester, Pa. By whom built Sun S.B. & D.D.Co. Yard No. 567 When built 1949

Owners Kupan Transport Co. Port belonging to Monrovia, Liberia

Electric Light Installation fitted by Sun S.B. & D.D.Co. Contract No. 567 When fitted 1949

Is the Vessel fitted for carrying Petroleum in bulk yes

System of Distribution 3 phase 3 wire for power 3 phase 3 wire for ltg. panels, 2 wire single phase for ltg. branch circuits

Pressure of supply for Lighting 115 volts, Heating 220 (water heater) volts, Power 440 volts

Direct or Alternating Current, Lighting Alternating Power Alternating

If alternating current system, state frequency of periods per second 60

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 temperature rise yes (as per AIEE Standards), are they compound wound AC generators are they over compounded 5 per cent - if not compound wound state distance between each generator -

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 exciter field yes

Have certificates of test results for machines under 100 kw. been submitted and approved - Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing 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 Are the lubricating arrangements of the generators as per Rule yes

Position of Generators machinery flat stbd. side, 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 - 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 machinery flat stbd. side

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 -

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 - and - 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

(as per AIEE Stds.) is it of an approved type yes, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework - is the non-hygroscopic insulating material of an approved type - 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, temperature rise of omnibus bars yes, individual fuses to voltmeter, pilot or earth lamp yes

are moving parts of switches alive in the "off" position no are all screws and nuts securing connections effectively locked yes are any fuses fitted on the live side of switches no

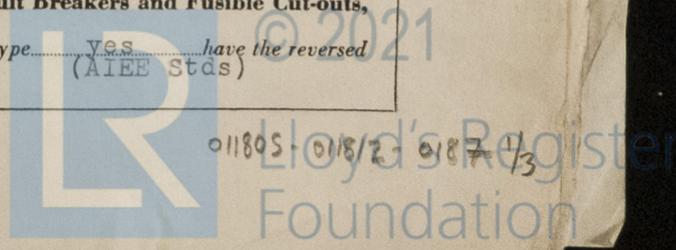
Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches 3 pole manually operated circ. breaker with 3 overcurrent trips & shunt trip (generator) 3 pole " " " " " " (each feeder circuit).

Are turbine driven generators fitted with emergency trip switch as per rule yes Are cupboards or compartments containing switchboards composed of fire-resisting material or lined with approved material - Instruments on main switchboard 2 ammeters 3 volt-

meters 1 synchronizing device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equalizer connection -

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

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules yes (AIEE Stds) are the fusible cutouts of an approved type yes have the reversed (AIEE Stds)



All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

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

The foregoing is a correct description.

Electrical Engineers. Date

COMPASSES.

Distance between electric ~~XXXXXX~~ motors and standard compass 15 feet. (motor for automatic whistle timing)

Distance between electric ~~XXXXXX~~ motors and steering compass 15 feet. "

The nearest cables to the compasses are as follows:—

A cable carrying .25 Ampères 1 feet from standard compass 1 feet from steering compass.

A cable carrying 2 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 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.

JM Jackson Builder's Signature. Date 4/15/49

Is this installation a duplicate of a previous case no. If so, state name of vessel.

General Remarks (State quality of workmanship, opinions as to class, &c. The electrical equipment of this vessel)

has been installed under Special Survey, and in accordance with the approved plans, and New

York letters; the workmanship and materials are good. The installation has been examined

under full working conditions, tested as per rule, and found satisfactory, and in our

opinion is eligible, to have the Society's Classification without special notation.

See separate report for the 400 KW generator sets.

Notes sent 24/6/49

Total Capacity of Generators 860 Kilowatts.

The amount of Fee ... £ : : 9 Apr. 1949 per F.A.G. When received.

Traveling Expenses (if any) £ : : 19

W. R. Penham & S. S. Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK APR 27 1949

Assigned Elec. Dept.

Im. 544—Transfer. Printed in U.S.A. (The Surveys are registered not to write on or below the space for Committee's Minute)

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRANDS.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED
		No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
Comb. Cont. Air Pump	1	1	.005	7	.030	11	22	75	VC	L & A
Emergency Bilge Pump	1	1	.005	7	.030	11	22	75	VC	L & A
Boiler Comp.	1	1	.005	7	.030	11	22	80	VC	L & A
Emergency Bilge Pump	1	1	.005	7	.030	4.6	22	90	VC	L & A
Drill Press	1	1	.005	7	.030	1.8	22	90	VC	L & A
Grinder	1	1	.005	7	.030	4.6	22	90	VC	L & A
Shaper	1	1	.005	7	.030	7.5	22	90	VC	L & A
Boiler Rm. Vent. Sup.	2	1	.008	7	.038	20	30	90	VC	L & A
Exh. Fan	2	1	.005	7	.030	6.4	22	90	VC	L & A
ENGINE ROOM SUPPLY	2	1	.005	7	.030	17.2	22	90	VC	L & A
HOSPITAL EXHAUST FAN	1	1	.005	7	.030	17.2	22	90	VC	L & A
Aft. Otrs. Supply Fan	1	1	.005	7	.030	0.7	22	100	VC	L & A
Pump Rm. Exh. Fan	2	1	.005	7	.030	4.6	22	100	VC	L & A
Galley Exh. Fan	1	1	.005	7	.030	4.6	22	90	VC	L & A
Batt. Rm. Exh. Fan	1	1	.005	7	.030	1.8	22	90	VC	L & A
Midship Otrs. Supply Fan	1	1	.005	7	.030	0.6	22	40	VC	L & A
Exh. Fan	1	1	.005	7	.030	3.2	22	30	VC	L & A
Generator Exh. Fan	1	1	.005	7	.030	1.8	22	30	VC	L & A
Midship Fresh Water Pump	1	1	.005	7	.030	1.8	22	30	VC	L & A
Water Pump	1	1	.005	7	.030	1.8	22	30	VC	L & A
VENTILATING FANS										