

Rpt. 13.

No. F.E. 35

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 28.I. 1961 When handed in at Local Office 19 Port of ROUEN.

No. in Survey held at DUNKIRK Date, First Survey 11.I.60 Last Survey 6.II.19.60
Reg. Book. (No. of Visits 16)91.062 on the Single Screw Steam Tanker "J. PAUL GETTY" Tons { Gross 40.906
Net 25.214

Built at DUNKIRK By whom built At. & Ch. de France Yard No. 228 When built 1960. II

Owners Hemisphere Transportⁿ. Corporation Port belonging to MONROVIA

Installation fitted by At. & Ch. de France When fitted 1960. II

Is vessel equipped for carrying Petroleum in bulk. Yes Is vessel equipped with D.F. yes E.S.D. yes Gy.C. yes Sub.Sig. no Radar yes

Plans, have they been submitted and approved. yes System of Distribution three phase three wire single 2 wire Voltage of Lighting

Heating Power D.C. or A.C., Lighting 115 Power 440/220 If A.C. state frequency 60 C.P.S.

Prime Movers, has the governing been found as per Rule when full load is thrown on and off. YES Are turbine emergency governors fitted

with a trip switch. yes Generators, are they compound wound. and level compounded under working conditions.

Are the generators arranged to run in parallel. yes Is the compound winding connected to the negative or positive pole.

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing. yes Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule. yes Position of Generators one forward one aft on flat

starboard side engine room. Emergency diesel engines in house on boat deck.

is the ventilation in way of generators satisfactory. yes are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil. yes Switchboards, where are main switchboards placed on flat forward part of,

engine room.

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

steam and oil. yes, what insulation is used for the panels. dead front, if of synthetic insulating

material is it an Approved Type. if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as

per Rule. Is the construction as per Rule, including locking of screws and nuts. yes Description of Main Switchgear

for each generator and arrangement of equaliser switches. Triple pole linked circuit breaker with overcurrent

trips, and reverse power relays.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. Triple pole linked circuit breaker with

overcurrent trips

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. yes Instruments on main switchboard. each phase

2 + 1 differential ammeters 2 voltmeters 1 synchronising devices. For compound machines in parallel are the ammeters and reverse current

2 wattmeters 1 frequency meter protection devices connected on the pole opposite to the equaliser connection. yes Earth Testing, state means provided. lamps

klaxon and relay Preference Tripping, state if provided. no, and tested

Switches, Circuit Breakers and Fuses, are they as per Rule. yes, are the fuses an Approved Type. yes

make of fuses. Siemens, are all fuses labelled. yes If circuit breakers are provided for the generators, at what

overload do they operate. 150% and at what current do the reverse current protective

devices operate. 3% in 15 seconds Cables, are they insulated and protected as per Rule. 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. less than 6% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends. 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 any cables laid under machines or floorplates. yes, if so, are they adequately protected. yes State

type of cables (if in conduit this should also be stated) in machinery spaces. varnished cambric lead covered braided galley's pyrotenax copper sheathed

and laundries. State how the cables are supported or protected. under fore and aft gangway in

channel. Foredeck in conduit attached to deck brackets elsewhere run in trays and clipped

Are all lead sheaths, armouring and conduits effectually bonded and earthed. yes 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 Refrigerated chambers, are the cables and fittings as per Rule. yes

Have refrigeration fan motors been constructed under survey. and test certificates supplied.

Are the motors accessible for maintenance at all times.

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule yes Emergency Supply, state position house on boat deck.

Navigation Lamps, are they separately wired yes controlled by separate double pole switches and fuses yes Are the switches and fuses in a position accessible only to the officers on watch yes, is an automatic indicator fitted yes Is an alternative supply provided yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule yes emergency generator engine starting yes, state battery capacity in ampere hours 300 Where required to do so does it comply with 1948 International Convention -

Lighting, is fluorescent lighting fitted no If so, state nominal lamp voltage - and compartments where lamps are fitted -

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof yes

Searchlights, No. of 1, whether fixed or portable fixed, are they of the carbon arc or of the filament type filament

Heating and Cooking, is the general construction as per Rule yes, are the frames effectually earthed yes, are heaters in the accommodation of the convection type - Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing yes

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule yes

Lightning Conductors, where required are they fitted as per Rule -

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with yes, are all fuses of an Approved Cartridge Type yes, make of fuse Siemans Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships yes Are all cables lead covered as per Rule yes

E.S.D., if fitted state maker Kelvin Hughes location of transmitter and receiver engine room double bottom Fr. 70.71

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations 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	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Amps.	Revs. per Min.	TYPE.	MAKER.
MAIN	2	Maison Braguet	900	450	1445	1200	steam turbine	Maison Braguet
EMERGENCY ROTARY TRANSFORMER	2	Ateliers d'Orleans	200	450	380	900	diesel	Acieries du Nord

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	2	900	8	3 x 200	1445	2200	vol-tage	V.C.	L.C. & M.B.
" EQUALISER							drop		
							not		
							exceeding		
							Rule		
EMERGENCY GENERATOR	2	200	2	3 x 200	380	550		V.C.	L.C. & M.B.
ROTARY TRANSFORMER MOTOR									
" GENERATOR									

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.									
From Main Switchboard 440 V 3 P									
Frig. & air cond ^s plant panel	6	I x 50	300	225	voltage	Px		Copper sheath	
Workshop panel	3	I x 3	25	30	drop	"		"	
Fwd. air cond ^s & power panel	3	I x 8	30	80	does	"		"	
Engine room power panel port side	3	I x 40	115	202	not	"		"	
Boiler room power panel port side	3	I x 40	90	202	exceed	"		"	
Eng. room power panel essent. serv.	3	I x 80	160	295	Rule.	"		"	
440/117 10 KVA transf. Port E.R. lighting	3	I x 8	26	80	"	"		"	
Steering gear feeder port side	6	I x 50	250	225	"	"		"	
Port side feeder to emer. S.B. bars	12	I x 100	820	335	"	"		"	
Starbd. " " " "	12	I x 100	820	335	"	"		"	
Wheelhouse panel	3	I x 5	20	58	"	"		"	
Eng. rm. power panel essent. serv. S.S.	3	I x 100	235	335	"	"		"	
440/117 10 KVA trans. starbd. E.R. lighting	3	I x 8	31.5	80	"	"		"	
Steering gear feeder S.S.	6	I x 50	250	225	"	"		"	
Boiler room power panel S.S.	3	I x 13	60	100	"	"		"	
Engine room power panel S.S.	3	I x 40	130	202	"	"		"	
Aft air cond ⁿ & power panel S.S. bos bars	3	I x 20	85	132	"	"		"	
440/230 25 KVA transv. for galley appliances	3	I x 40	100	202	"	"		"	

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			In the Circuit.	Rule.			
115 V AC SP							
From Main S.B. trans.							
Starbd. side E.R. lighting lower platform	I	2 x 3.5	5.0	27		V.C.	L.C. & M.B.
	I	"	5.3	"		"	
	I	"	5.3	"		"	
	I	"	2.8	"		"	
upper platform	I	"	7.0	"		"	
	I	"	8.7	"		"	
middle platform	I	"	5.3	"		"	
	I	"	8.9	"		"	
engine casing	I	"	6.1	"		"	
indicators	I	"	3.2	"		"	
boiler room	I	"	2.6	"		"	
	I	"	3.5	"		"	
	I	"	3.5	"		"	
	I	"	5.2	"		"	
	I	"	2.6	"		"	
	I	"	2.6	"		"	
	I	"	0.7	"		"	
	I	"	1	"		"	
	I	"	2	"		"	
From aft app. panel							
Aft external lighting	I	3 x 5.5	16.5	24.		"	
Port aft accom.	I	3 x 22	37.	64.		"	
Starboard aft. accom.	I	3 x 40	53.	92.5		"	
Port aft alleyway	I	3 x 3.5	5.7	16.		"	
starboard aft alleyway	I	3x 3.5	6.9	16.		"	
Eng. accom. lighting	I	3 x 8	17.3	38.		"	
From forward app. panel							
Bridge lighting P.S.	I	3 x 22	36.6	64		"	
Bridge lighting S.S.	I	3 x 22	36.	64		"	
Wheelhouse ext. lighting	I	3 x 14	22.7	44		"	
Wheelhouse instruments	3	I x 8	21	80		Px	Copper sheath
Forecastle lighting	3	I x 5	12.7	58		Px	
From Wheelhouse board							
Suez docking light	2	I x 2	2 fuse capacity	15		Px	
Stern light.	4	I x 2	"	"		"	
Rangd. light aft (1)	4	I x 2	"	"		"	
" " " (2)	4	I x 2	"	"		"	
Port nav. light (1)	4	I x 2	"	"		"	
" " " (2)	4	I x 2	"	"		"	
Starboard nav. light (1)	4	I x 2	"	"		"	
" " " (2)	4	I x 2	"	"		"	
Foremast " " (1)	4	I x 2	"	"		"	
" " " (2)	4	I x 2	"	"		"	
Forward anchor light	2	I x 2	"	"		"	
Aft anchor light	2	I x 2	"	"		"	
Radio	I	3 x 8	25	38		V.C.	L.C. & M.B.
Window wiper	2	3 x 2	5	15		"	
Signalling light	2	2 x 2	5	19		"	
Echo sounder	I	2 x 3.5	5	27		"	
Direct finder	I	2 x 2	5	19		"	
Radar	I	2 x 3.5	25	27		"	
Navg. bridge lighting	I	2 x 3.5	10	"		"	
Wheelhouse & chartroom lighting	I	2 x 3.5	10	"		"	
Navg. app. lighting	I	2 x 3.5	10	"		"	
Navg. bridge lighting	I	2 x 3.5	10	"		"	
Foremast lighting	I	2 x 5.5	10	36		"	
Bridge front lighting	I	2 x 5.5	10	"		"	
Bridge aft lighting	I	2 x 5.5	10	"		"	
Main mast lighting	I	2 x 5.5	10	"		"	
Poop front lighting	I	2 x 5.5	10	"		"	
After mast lighting	I	2 x 5.5	10	"		"	
Forward pump room lighting	I	2 x 5.5	10	"		"	
" " " "	I	2 x 5.5	10	"		"	

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
Boat deck projector	1	2 x 5.5	10	36		V.C.	L.C. 2 M.B.
Bridge external lighting	1	2 x 3.5	10	27		"	
" " "	1	2 x 3.5	10	"		"	
Main deck external lighting	1	2 x 3.5	10	"		"	
" " " "	1	2 x 3.5	10	"		"	
Suez projector	2	1 x 20	20	132		Px	Copper sheath
220 V A.C. S.P.							
From Galley app. panel							
Cooking range	2	1 x 10	33.6	94		Px	
	2	1 x 3	7.3	30		"	
	2	1 x 3	8.2	30		"	
	2	1 x 3	20	30		"	
	2	1 x 10	33.6	94		"	
	2	1 x 3	7.3	30		"	
	2	1 x 3	8.2	30		"	
	2	1 x 3	18.2	30		"	
Oven	2	1 x 3	13.6	30		"	
	2	1 x 3	13.6	30		"	
	2	1 x 3	13.6	30		"	
440 V A.C. 3 P							
From wheelhouse board							
Gyro compass	1	3 x 2	10	15		V.C.	L.C. 2 M.B.
Gyro pilot	1	3 x 2	10	15		"	
Radio	1	3 x 8	25	38		"	

MAIN DISTRIBUTION CABLES (to Section-Boards and Distribution-Fuse-Boards, etc.).

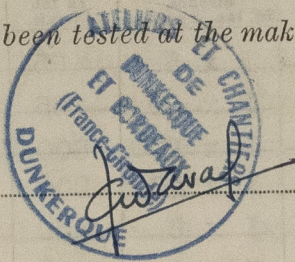
DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
From Emergency Switchboard 440 V 3 P							
440/117 trans. 5 KVA Suez Canal	2	1 x 5	65	58		Px	Copper sheath
440/117 trans. 15 KVA lighting & wheelhouse panel	3	1 x 20	65	132		"	
Shore circuit	12	1 x 100	800	335		"	
Stabiliser power panel	6	1 x 40	200	202		"	
Engl room lighting panel	3	1 x 8	30	80		"	
440/117 trans. 10 KVA aft lighting panel	3	1 x 8	40	80		"	
115 V AC. SP							
From Main S.B. trans.							
Port side E.R. lighting lower platform	1	2 x 3.5	3.5	27		V.C.	L.C. 2 M.B.
	1	2 x 3.5	5.3	"		"	
	1	2 x 3.5	5.3	"		"	
	1	2 x 3.5	2.1	"		"	
upper platform	1	2 x 3.5	5.3	"		"	
	1	"	8.9	"		"	
middle platform	1	"	2.7	"		"	
	1	"	7.0	"		"	
engine casing	1	"	8.0	"		"	
indicators	1	"	2.6	"		"	
boiler room	1	"	3.5	"		"	
	1	"	3.5	"		"	
	1	"	3.5	"		"	
	1	"	5.2	"		"	
	1	"	2.6	"		"	
	1	"	4.3	"		"	
	1	"	4.3	"		"	
	1	"	0.7	"		"	
	1	"	2.5	"		"	

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED		No.	B.H.P.						
440 V 3 P									
Forced draught fans	2	60/185	3	1 x 100	83/245	335		Px	Copper sheath
Main circulating pumps	2	128	3	1 x 80	171.4	295		"	
Main extraction pumps	2	50	3	1 x 13	69	100		Px	
General service & fire pump	1	56	3	1 x 13	77.4	100		Px	
Aux. gen. fan. lub. oil pump	2	3	1	3 x 3.5	4.8	16.0		VC	L.C. 2 M.B.
Main lub. oil pumps	2	45	1	3 x 22	62	64		VC	
Aux. circulating pump	1	62.5	1	3 x 40	86.2	92.5		VC	
Boiler starting fan	1	3	1	3 x 3.5	4.8	16		VC	
Air compressor regulator	1	11	1	3 x 5.5	15.5	24		VC	
Dirty oil trans. pump	2	8	1	3 x 3.5	12.1	16		VC	
Aux. extract. pump	1	24	1	3 x 14	33.6	44		VC	
Oil fuel burning pumps	2	18	1	3 x 5.5	24	24		VC	
Boiler starting fuel pump	1	6	1	3 x 3.5	9.3	16		VC	
E.R. vent fan discharge	2	15	1	3 x 5.5	21.0	24		VC	L.C. & M.B.
E.R. vent fan suction	2	16	1	3 x 5.5	22.4	24		VC	
Fuel oil trans. pump	1	16	1	3 x 5.5	22.4	24		VC	
Evap. make up feed pump	1	2.5	1	3 x 3.5	4.1	16		VC	
Evap. distilled water pump	2	2	1	3 x 3.5	3.4	16		VC	
Evap. sea water pump	2	2	1	3 x 3.5	3.4	16		VC	
Evap. circulating pump	1	3	1	3 x 3.5	4.8	16		VC	
Boiler room vent. fan disch.	1	28	1	3 x 14	38	44		VC	
General service air comp.	1	22	1	3 x 14	31	44		VC	
Steering gear	2	90	2	3 x 40	124	92		VC	
Sea water gen. serv. pump	1	30	1	3 x 14	41	44		VC	
Bilge pump	1	14	1	3 x 5.5	19	24		VC	

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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 Contractors. Date

COMPASSES.

Have the compasses been adjusted under working conditions



Builder's Signature. Date 23/10/60

Have the foregoing descriptions and schedules been verified and found correct

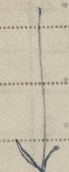
Is this installation a duplicate of a previous case. If so, state name of vessel

Plans. Are approved plans forwarded herewith. If not, state date of approval

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

PLEASE SEE PREVIOUS REPORT



Total Capacity of Generators Kilowatts.

The amount of Fee ... £ : : When applied for,

19

PLEASE SEE PREVIOUS REPORT

When received,

19

Travelling Expenses (if any) £ : :

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 154.—Transfer. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minute.)



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