

Vessel: RV Medeia
 Client: Point Hope Maritime
 Work Item Number: 48640
 Date: 2023-03-14
 Test Technician: Matt Bolton
 Test Equipment: MIT430/2
 Calibration Cert #: 68346



MARINE SERVICES DIVISION

Megger Test Certificate

Panelboard Number or Name: Void Room
 Location: Work Shop
 Voltage Rating: 120/208V 3Ø
 Description of test performed: 500V Megger
 Test Criteria: Transport Canada TP127E - 100kΩ to hull per TP127E 34.6 (b)

Test Data

Circuit #:	Circuit Identification:	Phase A or L1	Phase B or L2	Phase C
1	Void Room Lights	1.25 GΩ	1.36 GΩ	
2	Auto Pilot	1.68 GΩ	1.71 GΩ	
3	Radio	4.25 GΩ	4.55 GΩ	
4	Radio	3.62 GΩ	3.82 GΩ	
5	Washing Machine	3.07 GΩ	3.68 GΩ	
6	Dryer	4.95 GΩ	46 kΩ	
7	Bottom Air Compressor	20 GΩ	12 GΩ	14 GΩ
8	Top Air Compressor	26 GΩ	10.5 GΩ	12 GΩ
9	Lower AC	92.6 MΩ	4.2 GΩ	94.9 MΩ
10	Sewer Pump	6.3 GΩ	6.6 GΩ	6.1 GΩ
11	Spare			
12	SBE	1.84 GΩ	2.24 GΩ	
13	Work Bench Grinder	1.72 GΩ	1.83 GΩ	
14	Hot H ₂ O 2	7.48 MΩ	7.51 MΩ	
15	Drill Press	596 MΩ	658 MΩ	
16	Hot H ₂ O 2	9 GΩ	11.5 GΩ	

Comments

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MARINE SERVICES DIVISION

Megger Test Certificate

Panelboard Number or Name: P1
 Location: Engine Room
 Voltage Rating: 120/208V 3Ø
 Description of test performed: 500V Megger
 Test Criteria: Transport Canada TP127E - 100kΩ to hull per TP127E 34.6 (b)

Test Data

Circuit #:	Circuit Identification:	Phase A or L1	Phase B or L2	Phase C
1	Port Engine Room Lights	1.02 GΩ	1.29 GΩ	
2	STBD Engine Room Lights	7.1 MΩ	6.3 MΩ	
3	Fresh H ₂ O Pump AFT	1.85 GΩ	1.89 GΩ	
4	Fresh H ₂ O Pump FWD	5 GΩ	5 GΩ	
5	Steering Motor FWD	7.9 GΩ	6.1 GΩ	4.7 GΩ
6	Steering Motor AFT	8.1 GΩ	3.5 GΩ	4.1 GΩ
7	Wheelhouse Panel	3.89 GΩ	3.82 GΩ	3.85 GΩ
8	Void Room Panel	30 GΩ	35 GΩ	30 GΩ
9	Main Deck Panel	4.2 GΩ	3.7 GΩ	4.1 GΩ
10	Steering Motor FWD	2.2 GΩ	1.56 GΩ	
11	Racor Lights	3.6 GΩ	3.8 GΩ	
12	Raw H ₂ O Deck Pump	9 GΩ	6.4 GΩ	
13	Head Pump	2.51 GΩ	2.75 GΩ	
14	Freezer Hold Pump	5.7 GΩ	6.8 GΩ	
15	Waste Oil Pump	7.6 GΩ	7 GΩ	
16	Engine Room Heater STBD	383 MΩ	407 MΩ	
17	Stack Lights	9.1 GΩ	8.8 GΩ	
18	Engine Room Heater Port	22 GΩ	29 GΩ	

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MARINE SERVICES DIVISION

Megger Test Certificate

Panelboard Number or Name: Galley
 Location: Main Deck
 Voltage Rating: 120/208V 3Ø
 Description of test performed: 500V Megger
 Test Criteria: Transport Canada TP127E - 100kΩ to hull per TP127E 34.6 (b)

Test Data

Circuit #:	Circuit Identification:	Phase A or L1	Phase B or L2	Phase C
1	Port Head & Stairway	1.51 GΩ	1.68 GΩ	
2	STBD Head	2.9 GΩ	3.4 GΩ	
3	Galley Center Receptacle	3.4 GΩ	3.9 GΩ	
4	Galley Front Receptacle	3.45 GΩ	4.4 GΩ	
5	Mess Hall Light Receptacle	806 MΩ	802 MΩ	
6	Galley Rear Receptacle	3.53 GΩ	4.2 GΩ	
7	TV/Coffee Receptacle	1.7 GΩ	1.9 GΩ	
8	Fridge Freezer	0.14 MΩ	0.14 MΩ	
9	Ice Maker & Trash Compactor	93 MΩ	2.5 MΩ	
10	Galley Lights	3.1 GΩ	3 GΩ	
11	Port Storage Room	2.5 GΩ	2.5 GΩ	
12	STBD State Room & Pantry	360 MΩ	375 MΩ	
13	Front Bunk Room Lamp	3 GΩ	3.9 GΩ	
14	Constavolt	3.7 GΩ	4.2 GΩ	
15	Front Bunk Room	2.5 GΩ	2.9 GΩ	
16	Lower STBD Bunk Room	0.14 MΩ	0.14 MΩ	
17	Lower Back Port Bunk Room & Hall	101 MΩ	102 MΩ	
18	Bogen Amp & Door Alarm	891 MΩ	919 MΩ	
19	Intercom	1.69 GΩ	1.69 GΩ	

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MARINE SERVICES DIVISION

Megger Test Certificate

Panelboard Number or Name: Wheelhouse Panel
 Location: Wheelhouse
 Voltage Rating: 120/208V 3Ø
 Description of test performed: 500V Megger
 Test Criteria: Transport Canada TP127E - 100kΩ to hull per TP127E 34.6 (b)

Test Data

Circuit #:	Circuit Identification:	Phase A or L1	Phase B or L2	Phase C
1	Port Spot	1.22 MΩ	8.2 GΩ	
2	STBD Spot	6.1 GΩ	2.1 MΩ	
3	Upper Deck Lights	31.2 MΩ	7.9 GΩ	
4	Lower Deck Lights	10 GΩ	408 MΩ	
5	Navigation Panel	32 kΩ	1.02 GΩ	
6	AFT Floods	3.81 GΩ	3.75 GΩ	
7	Fathometer Loran	1.24 GΩ	1.2 GΩ	
8	Window Defroster	18 GΩ	18.5 GΩ	
9	Window Heater	45 kΩ	45 kΩ	
10	Spare	7.5 GΩ	14.5 GΩ	
11	Port Wheelhouse Receptacle	663 MΩ	620 MΩ	
12	FWD & STBD O.L./Gen Alarm	841 MΩ	897 MΩ	
13	Sonar CH12	1 GΩ	1.9 GΩ	
14	Leniar	2.5 GΩ	2.9 GΩ	
15	Wheelhouse Lights	1.82 MΩ	1.82 MΩ	
16	Survey Room Lights	1.7 GΩ	1.8 GΩ	
17	Survey Room Receptacle	0.6 MΩ	0.6 MΩ	
18	Survey Room Receptacle	2.4 GΩ	2.5 GΩ	
19	Survey Room Receptacle	1.9 GΩ	2.3 GΩ	
20	Constavolt	2.8 GΩ	3 GΩ	

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MARINE SERVICES DIVISION

Megger Test Certificate

Panelboard Number or Name: Misc Loads
 Location: Engine Room and Void Room
 Voltage Rating: Assorted
 Description of test performed: 500V Megger
 Test Criteria: Transport Canada TP127E - 100kΩ to hull per TP127E 34.6 (b)

Test Data

Circuit #:	Circuit Identification:	Phase A or L1	Phase B or L2	Phase C
	Hydraulic Pump	5 GΩ	5.1 GΩ	
	AFT Salt Water Pump	6.1 GΩ	6.5 GΩ	
	FWD Salt Water Pump	4.2 GΩ	4.6 GΩ	
	Port Engine Air Compressor	38.9 MΩ	41.1 MΩ	42 MΩ
	Ships Bilge Pump	7.8 GΩ	7.7 GΩ	7.8 GΩ
	Engine Room Fan - Fast	8.1 GΩ	10 GΩ	13 GΩ
	Engine Room Fan - Slow	6.1 GΩ	7.8 GΩ	8.9 GΩ
	Fuel Pump	17.5 GΩ	18.1 GΩ	19.3 GΩ
	Keel Cooler Pump	135 MΩ	135 MΩ	135 MΩ
	Freezer Compressor	5.6 GΩ	5.8 GΩ	6.1 GΩ
	Fire Pump	18.5 GΩ	19.1 GΩ	18.7 GΩ
	Sewage Pump	21 GΩ	23 GΩ	24 GΩ
	Steering Pump 1	8.6 GΩ	9.3 GΩ	8.7 GΩ
	Steering Pump 1	4.9 GΩ	5.3 GΩ	5.7 GΩ
	Void Air Compressor - Upper	8.5 GΩ	8.9 GΩ	9.3 GΩ
	Void Air Compressor - Lower	9 GΩ	9.7 GΩ	10.5 GΩ
	Center Bilge Pump STBD			23 kΩ
	Center Bilge Pump Port			32 kΩ
	Sump Pumps STBD			32 kΩ
	Sump Pumps Port			23 kΩ

Comments

