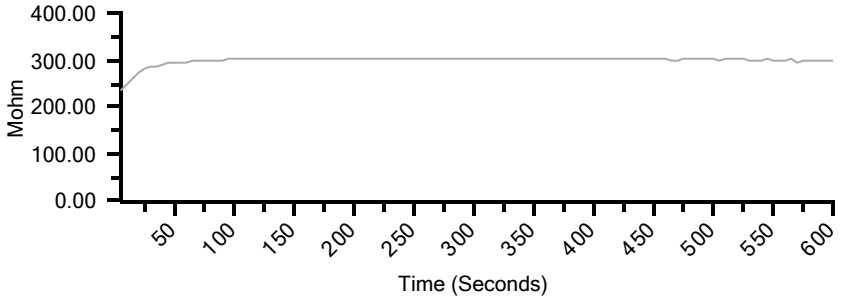
Report Title 2023 PDMA Motor MCE Test Report
Submitted By Kevin Maxwell
Create Date 07/19/23 12:55 PM
Asset Name #3 Vacuum Pump
Description USG Greenville, MS

Date: 07/17/23 1:33 PM Dated Test Event

Test Date	08/01/20	07/21/21	08/06/22	07/17/23
Test Time	10:46 AM	8:24 AM	11:40 AM	2:33 PM
Test Location	Of Fuses Local Dis	Drive Output	Drive Output	T-Leads
Tester Serial	5095	5095	5095	5095
MTap ID				
	Baseline			
Frequency	1200	1200	1200	1200
Charge Time	600	600	600	600
Voltage	500	1000	1000	500
Motor Temp	24	26	49	32
Measured Mohm	10303.65	565.81	291.99	295.46
Corrected Mohm	3400.00	214.00	540.00	170.00
pF Ph 1 to Ground	88000	96500	107800	98800
ohm Ph 1 to 2	0.03430	0.03450	0.02640	0.02490
ohm Ph 2 to 3	0.03440	0.03440	0.02620	0.02470
ohm Ph 3 to 1	0.03100	0.03440	0.02620	0.02470
mH Ph 1 to 2	3.076	1.727	1.329	1.912
mH Ph 2 to 3	3.088	2.057	2.013	1.928
mH Ph 3 to 1	2.580	1.772	1.585	2.038
Average Inductance	2.915	1.869	1.842	1.859
% Res. Imbalance	6.72	0.27	0.51	0.54
% Ind. Imbalance	11.49	12.23	14.01	13.44

Date: 07/17/23 2:33 PM **Test:** Polarization Index Test



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	Baseline			
Voltage	500	1000	1000	500
Duration	600	600	600	600
D/A Ratio	1.459	1.197	1.079	1.043
Polar. Index	2.360	1.298	1.027	1.007

Remarks: Inductive imbalance is above alarm limit of 12%. PI value is low at 1.007. The PI value has decreased 100% since 2020. This is somewhat concerning. Motor may have some insulation degradation and possible contamination or moisture issue as well.