

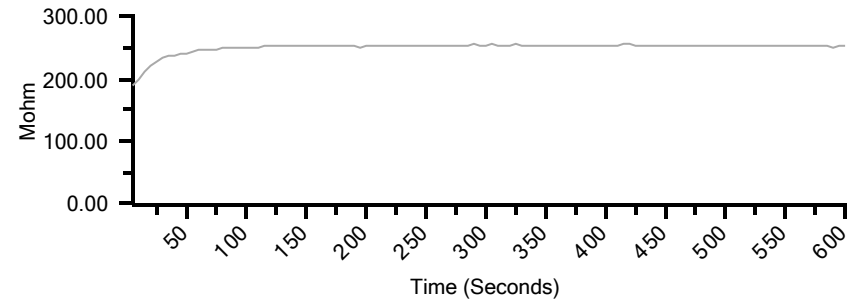
Report Title 2023 PDMA Motor MCE Test Report
Submitted By Kevin Maxwell
Create Date 07/19/23 12:50 PM
Asset Name #1 Vacuum Pump
Description USG Greenville, MS



Date: 07/17/23 1:15 PMDated Test Event

Test Date	08/01/20	07/20/21	08/06/22	07/17/23
Test Time	10:05 AM	2:38 PM	11:04 AM	2:15 PM
Test Location	Of Fuses Local Dis	Drive Output	Drive Output	Motor 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	28	49	32
Measured Mohm	4190.68	443.72	291.66	244.29
Corrected Mohm	1400.00	193.00	540.00	140.00
pF Ph 1 to Ground	112000	94300	109200	105100
ohm Ph 1 to 2	0.02350	0.02510	0.02850	0.02520
ohm Ph 2 to 3	0.02350	0.02500	0.02850	0.02520
ohm Ph 3 to 1	0.02360	0.02500	0.02860	0.02540
mH Ph 1 to 2	1.421	1.337	1.655	1.606
mH Ph 2 to 3	1.664	1.592	1.504	1.366
mH Ph 3 to 1	1.450	1.570	1.377	1.576
Average Inductance	1.512	1.500	1.510	1.514
% Res. Imbalance	0.28	0.27	0.25	0.53
% Ind. Imbalance	10.14	10.90	9.27	10.23

Date: 07/17/23 2:15 PM Test: Polarization Index Test



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Test Location	Of Fuses Local Dis	Drive Output	Drive Output	Motor Leads
Tester Serial	5095	5095	5095	5095
MTap ID				
	Baseline			
Voltage	500	1000	1000	500
Duration	600	600	600	600
D/A Ratio	1.635	1.149	1.096	1.054
Polar. Index	1.968	1.217	1.110	1.027

Remarks: Inductance imbalance is near alarm limit.12% is the limit for a 460 volt AC motor. PI is also flat and is indication of the degradation of the insulation/ windings. Motor could use a servicing/reconditioning which would include a clean, dip, and bake for the stator.