Report Title2023 PDMA Motor MCE Test ReportSubmitted ByAdministratorCreate Date12/05/23 10:16 AMAsset NameWet Zone Combustion Air FanDescriptionUSG Greenville, MS



Test Date	11/15/20	10/17/21	11/19/22	12/04/23
Test Time	11:54 AM	9:18 AM	11:04 AM	11:11 AM
Test Location	Of Fuses Local Dis	Top Starter	Top Starter	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	18	21	4	12
Measured Mohm	629.15	794.81	1698.85	1072.03
Corrected Mohm	137.00	213.00	140.00	154.00
pF Ph 1 to Ground	36200	38000	34700	34900
ohm Ph 1 to 2	0.06560	0.06610	0.06350	0.06400
ohm Ph 2 to 3	0.06550	0.06600	0.06330	0.06410
ohm Ph 3 to 1	0.06530	0.06590	0.06320	0.06400
mH Ph 1 to 2	2.336	2.498	2.638	2.658
mH Ph 2 to 3	2.621	2.840	2.511	2358
mH Ph 3 to 1	2.735	2.533	2.504	2.670
verage Inductance	2.564	2.624	2,614	2.535
% Res. Imbalance	0.25	0.15	0.26	0.10
% Ind. Imbalance	8.91	8.19	8.10	8.94



Date: 12/04/23 10:11 AMDated Test Event

Test Date	11/15/20	10/17/21	11/19/22	12/04/23
Test Time	11:54 AM	9:18 AM	11:04 AM	11:11 AM
Test Location	Of Fuses Local Dis	Top Starter	Top Starter	T-Leads
Tester Serial	5095	5095	5095	5095
MTap ID				
	Baseline			
Voltage	500	1000	1000	500
Duration	600	600	600	600
D/A Ratio	1.306	1.249	1.114	1.007
Polar, Index	1.530	1,482	1.175	1.322

**Remarks:** D/A ratio appears to be decreasing with each survey. This indicates insulation breakdown is likely occurring in the motor windings. Alarm level is at 1 and below and this most recent D/A ratio is at 1.007. This will be monitored closely next survey.

Report Title 2023 PDMA Motor MCE Test Report Submitted By Administrator Create Date 12/05/23 10:12 AM Asset Name Dry Zone Combustion Air Fan Description USG Greenville, MS



est Date	11/15/20	10/17/21	11/19/22	12/04/23	5000 -		
Test Time	11:37 AM	9:00 AM	10:46 AM	11:29 AM	4000	~ ^	$\sim$
Test Location	Of Fuses Local Dis	Top Starter	Top Starter	T-Leads	E 3000		V V ~
Tester Serial	5095	5095	5095	5095		$\sim\sim$	
MTap ID					≥2000		
in the second	Baseline				1000		
Frequency	1200	1200	1200	1200	0-4		<u> </u>
Charge Time	600	600	600	600	ŵ	10° 15° 10° 1	60 ~ Ce Ce
Voltage	500	1000	1000	500		· · · ·	Time (Second
Motor Temp	19	14	4	12			
leasured Mohm	1794.93	1187.22	4588.77	2294.38			
orrected Mohm	419.00	198.00	378.00	329.00	D		
F Ph 1 to Ground	31600	32500	31100	31200	Date: 12/04/23	10:29 AMDated	Test Ever
ohm Ph 1 to 2	0.07360	0.07490	0.07110	0.07210			
ohm Ph 2 to 3	0.07340	0.07460	0.07080	0.07180	Test Date	11/15/00	10/17/21
ohm Ph 3 to 1	0.07350	0.07470	0.07100	0.07200	Test Date	11-27 AM	9-00 AM
mH Ph 1 to 2	3.566	3.601	3.547	3,660	Test l eesties	Of Euses Local Die	Top Starter
mH Ph 2 to 3	3.404	3.405	3.435	4.622	Tester Seciel	5095	5095
WILL DIS Days 5	3.920	3.938	3,948	3.530	MTap ID	0000	4004
mH Ph 3 to 1		177. 199	3.643	3.737	Mitapiu	Decelies	
verage Inductance	3.630	3.648		V.2044			
erage Inductance Res. Imbalance	3.630 0.14	3.648 0.13	0.23	0.23	Voltage	500	1000

st Event 17/21 11/19/22 12/04/23 MA 00 10:46 AM 11:29 AM Top Starter T-Leads Starter 095 5095 5095 000 1000 500 600 600 600 517 1.206 1.328 036 2.029 1.979

500

5 Sol

60

Remarks: Polar index data is showing some signs of winding contamination. This recent PI test shows the PI to be the lowest on record. Mohm reading is good so for now, we will continue to monitor this closely next survey.

Report Title2023 PDMA Motor MCE Test ReportSubmitted ByAdministratorCreate Date12/05/23 10:18 AMAsset NameKiln Exhaust FanDescriptionUSG Greenville, MS



Test Date	11/15/20	10/17/21	11/19/22	12/04/23
Test Time	10:58 AM	9:46 AM	11:30 AM	11:56 AM
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	18	25	22	18
Measured Mohm	3501.21	2434.20	4718.29	13915.87
Corrected Mohm	760.00	960.00	1400.00	3000.00
pF Ph 1 to Ground	90700	90700	88500	85600
ohm Ph 1 to 2	0.01834	0.01929	0.01900	0.01794
ohm Ph 2 to 3	0.01827	0.01924	0.01901	0.01785
ohm Ph 3 to 1	0.01835	0.01932	0.01906	0.01795
mH Ph 1 to 2	3.104	2.841	1878	2.732
mH Ph 2 to 3	2.908	3.007	2.841	3.015
mH Ph 3 to 1	2.760	2.629	3.027	3.046
werage Inductance	2.924	2.826	2.848	2.931
% Res. Imbalance	0.27	0.22	0.19	0.35
% Ind. Imbalance	8.15	6.90	6.26	6.88



Date: 12/04/23 10:56 AMDated Test Event

Test Date	11/15/20	10/17/21	11/19/22	12/04/23
Test Time	10:58 AM	9:46 AM	11:30 AM	11:56 AM
Test Location	Of Fuses Local Dis	Drive Output	Drive Output	T-Leads
Tester Serial	5095	5095	5095	5095
MTap ID				
	Baseline			
Voltage	500	1000	1000	500
Duration	000	600	600	600
D/A Ratio	1.307	1.522	1.607	1.371
Polar, Index	2.258	3.410	5.101	2.426

Remarks: Data looks ok for this motor. No issues to report at this time.

Report Title 2023 PDMA Motor MCE Test Report Submitted By Administrator Create Date 12/05/23 10:20 AM Asset Name #1 Finishing Dust Collector RELIANCE Description USG Greenville, MS



ate: 12/04/23 11:37	7 AMDated Test Event	Date: 12/04/23 12:37 PM Test: Polarization Index Test
Test Date	12/04/23	10000 ]
Test Time	12:37 PM	8000 -
Test Location	T-Leads	E 6000 -
Tester Serial	5095	S 4000 -
MTap ID		2000 -
	Baseline	
Frequency	1200	6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -
Charge Time	600	
Voltage	500	
Motor Temp	13	
Measured Mohm	4474.92	Date: 12/04/23 11:37 AMDated Test Event
Corrected Mohm	690.00	
pF Ph 1 to Ground	84300	
ohm Ph 1 to 2	0.02330	Test Date 12/04/23
ohm Ph 2 to 3	0.02350	Test Time 12:37 PM
ohm Ph 3 to 1	0.02350	Tester Serial 5095
mH Ph 1 to 2	1.580	MTap ID
mH Ph 2 to 3	1.575	Baseline
mH Ph 3 to 1	1.723	Voltage 500
Average Inductance	1.626	Duration 600
% Res. Imbalance	0.57	
% Ind. Imbalance	6.05	D/A Ratio 1.325
		Polar. Index 2.065

Remarks: The motor has been changed out since last survey, so this is baseline data for this motor. All data appears to be within normal parameters. No issues to report at this time.

Report Title2023 PDMA Motor MCE Test ReportSubmitted ByAdministratorCreate Date12/05/23 10:22 AMAsset Name#2 Finishing Dust CollectorDescriptionUSG Greenville, MS



Test Date	11/15/20	11/19/22	12/04/23	12/04/23	0.00 -				
Test Time	10:04 AM	10:01 AM	1:15 PM	1:24 PM					
Test Location	Of Fuses Local Dis	Bottom Fuses	T-Leads	T-Leads	0.00				
Tester Serial	5095	5095	5095	5095	토 <sub>0.00</sub> –				
MTap ID					Σ.				
11-2-17-17-17-17-1	Baseline				0.00 -				
Frequency	1200	1200	1200	1200	0.00				
Charge Time	600	600	600	600	5 G	1 8	9 10 1 <sup>1</sup>	- <del>2</del> 2	~A
Voltage	500	1000	1000	500			Time (Cecende)		·
Motor Temp	18	2	13	13			Time (Seconds)		
Measured Mohm	544.33	3720.36	0.00	0.00					
Corrected Mohm	118.00	267.00	N/C	N/C	D ( 10/04/02				
the bill of the second s		58000	> 1000000	> 1000000	Date: 12/04/23	12:24 PMDate	d Test Event		
pF Ph 1 to Ground	57900	30000			11				
pF Ph 1 to Ground ohm Ph 1 to 2	0.02420	0.02440	0.02540	0.02550					
pF Ph 1 to Ground ohm Ph 1 to 2 ohm Ph 2 to 3	0.02420	0.02440	0.02540 0.02530	0.02550	Test Date	11(15/20	11/19/22	12/04/22	12/04/22
pF Ph 1 to Ground ohm Ph 1 to 2 ohm Ph 2 to 3 ohm Ph 3 to 1	0.02420	0.02440 0.02430 0.02430	0.02540 0.02530 0.02540	0.02550	Test Date	11/15/20	11/19/22	12/04/23	12/04/23
pFPh1 to Ground ohm Ph1 to 2 ohm Ph2 to 3 ohm Ph3 to 1 mH Ph1 to 2	0.02420 0.02430 0.02420 1.488	0.02440 0.02430 0.02430 1.535	0.02540 0.02530 0.02540 83841	0.02550 0.02530 0.02540 3.360	Test Date Test Time	11/15/20 10:04 AM	11/19/22 10:01 AM	12/04/23 1:15 PM	12/04/23 1:24 PM
pFPh 1 to Ground ohm Ph 1 to 2 ohm Ph 2 to 3 ohm Ph 3 to 1 mH Ph 1 to 2 mH Ph 2 to 3	5,900 0.02420 0.02430 0.02420 1.488 1.474	0.02440 0.02430 0.02430 1.535 1.557	0.02540 0.02530 0.02540 0.02540 0.02540	0.02550 0.02530 0.02540 5386 5281	Test Date Test Time Test Location	11/15/20 10:04 AM Of Fuses Local Dis	11/19/22 10:01 AM Top Overloads 5055	12/04/23 1:15 PM T-Leads	12/04/23 1:24 PM T-Leads
pFPh 1 to Ground ohm Ph 1 to 2 ohm Ph 2 to 3 ohm Ph 3 to 1 mH Ph 1 to 2 mH Ph 2 to 3 mH Ph 3 to 1	5,900 0.02420 0.02430 0.02420 1.486 1.474 1.628	0.02440 0.02430 0.02430 1.535 1.557	0.02540 0.02530 0.02540 3.341 3.345 2.562	0.02550 0.02530 0.02540 3.360 <u>0.02540</u> 3.360 <u>0.02540</u>	Test Date Test Time Test Location Tester Serial	11/15/20 10:04 AM Of Fuses Local Dis 5095	11/19/22 10:01 AM Top Overloads 5095	12/04/23 1:15 PM T-Leads 5095	12/04/23 1:24 PM T-Leads 5095
pF Ph 1 to Ground ohm Ph 1 to 2 ohm Ph 2 to 3 ohm Ph 3 to 1 mH Ph 1 to 2 mH Ph 2 to 3 mH Ph 3 to 1 verage Inductance	5,900 0.02420 0.02430 0.02420 1.488 1.474 1.628 1.529	0.02440 0.02430 0.02430 1.535 1.557 1.557 1.555 1.482	0.02540 0.02530 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02530 0.02540 0.02530 0.02540 0.02540 0.02530 0.025400 0.02540 0.025400 0.025400 0.025400 0.025400 0.025400 0.025400 0.02540000000000000000000000000000000000	0.02550 0.02530 0.02540 3.360 3.361 2.561 3.174	Test Date Test Time Test Location Tester Serial MTap ID	11/15/20 10:04 AM Of Fuses Local Dis 5095	11/19/22 10:01 AM Top Overloads 5095	12/04/23 1:15 PM T-Leads 5095	12/04/23 1:24 PM T-Leads 5095
pF Ph 1 to Ground ohm Ph 1 to 2 ohm Ph 2 to 3 ohm Ph 3 to 1 mH Ph 1 to 2 mH Ph 2 to 3 mH Ph 3 to 1 verage Inductance % Res. Imbalance	5,900 0.02420 0.02430 0.02420 1.486 1.474 1.628 1.529 0.28	0.02440 0.02430 0.02430 1.535 1.557 1.557 1.482 1.482 0.27	0.02540 0.02530 0.02540 3.341 3.245 2.500 3.163 0.28	0.02550 0.02530 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02540 0.02550 0.02550 0.02550 0.02550 0.02550 0.02550 0.02530 0.02530 0.02530 0.02540 0.025600 0.02560000000000000000000000000000000000	Test Date Test Time Test Location Tester Serial MTap ID	11/15/20 10:04 AM Of Fuses Local Dis 5095 Baseline 500	11/19/22 10:01 AM Top Overloads 5095	12/04/23 1:15 PM T-Leads 5095	12/04/23 1:24 PM T-Leads 5095
pF Ph 1 to Ground ohm Ph 1 to 2 ohm Ph 2 to 3 ohm Ph 3 to 1 mH Ph 1 to 2 mH Ph 2 to 3 mH Ph 3 to 1 werage Inductance % Res. Imbalance % Ind. Imbalance	5,900 0.02420 0.02430 1,488 1,474 1,628 1,529 0,28 6,54	0.02440 0.02430 0.02430 1.535 1.557 1.452 1.482 0.27	0.02540 0.02530 0.02540 3.341 3.245 2.562 3.163 0.25 5.25 3.163	0.02550 0.02530 0.02540 3350 0.02540 3.350 2.250 3.174 0.39 1.051	Test Date Test Time Test Location Tester Serial MTap ID Voltage	11/15/20 10:04 AM Of Fuses Local Dis 5095 Baseline 500 600	11/19/22 10:01 AM Top Overloads 5095 1000	12/04/23 1:15 PM T-Leads 5095 1000	12/04/23 1:24 PM T-Leads 5095 500
pF Ph 1 to Ground ohm Ph 1 to 2 ohm Ph 2 to 3 ohm Ph 3 to 1 mH Ph 1 to 2 mH Ph 2 to 3 mH Ph 3 to 1 verage Inductance % Res. Imbalance % Ind. Imbalance	5,900 0.02420 0.02420 1.488 1.474 1.628 1.529 0.28 6.54	0.02440 0.02430 0.02430 1.535 1.557 1.557 1.482 0.27 8.55	0.02540 0.02530 0.02540 3.341 3.046 2.562 3.163 0.28 5.28	0.02550 0.02530 0.02540 33560 5.051 2.961 3.174 0.39 8.61	Test Date Test Time Test Location Tester Serial MTap ID Voltage Duration	11/15/20 10:04 AM Of Fuses Local Dis 5095 Baseline 500 600	11/19/22 10:01 AM Top Overloads 5095 1000 600	12/04/23 1:15 PM T-Leads 5095 1000 15	12/04/23 1:24 PM T-Leads 5095 500 15
pF Ph 1 to Ground ohm Ph 1 to 2 ohm Ph 2 to 3 ohm Ph 3 to 1 mH Ph 1 to 2 mH Ph 2 to 3 mH Ph 3 to 1 werage Inductance % Res. Imbalance % Ind. Imbalance	5,900 0.02420 0.02420 1.488 1.474 1.628 1.529 0.28 6.54	0.02440 0.02430 0.02430 1.535 1.557 1.557 1.482 0.27 8.55	0.02540 0.02530 0.02540 3.245 2.560 3.163 0.28 8.28	0.02550 0.02530 0.02540 3.060 3.061 3.074 0.39 8.61	Test Date Test Time Test Location Tester Serial MTap ID Voltage Duration	11/15/20 10:04 AM Of Fuses Local Dis 5095 Baseline 500 600 2.025	11/19/22 10:01 AM Top Overloads 5095 1000 600	12/04/23 1:15 PM T-Leads 5095 1000 15 N/C	12/04/23 1:24 PM T-Leads 5095 500 15 N/C

Remarks: This motor has been changed out since our last survey. New motor is not testing good. Capacitance is way off scale and the PI test (which is a RTG test) trips out on excessive current leakage to ground. It is highly recommended to inspect motor leads and connections at the motor junction box and at the junction box above the motor ASAP. The motor should also be retested at the motor leads.

Report Title2023 PDMA Motor MCE Test ReportSubmitted ByAdministratorCreate Date12/05/23 10:23 AMAsset Name#3 Finishing Dust CollectorDescriptionUSG Greenville, MS



Test Time Test Location	10:25 AM	C C4 111		
Test Location	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	8:31 AM	9:40 AM	12:55 PM
	Of Fuses Local Dis	Not Assigned	Not Assigned	T-Leads
Tester Serial	5095	5095	5095	5095
MTap ID				
	Baseline			
Frequency	1200	1200	1,200	1200
Charge Time	600	600	60	600
Voltage	500	1000	1000	500
Motor Temp	18	14	2	13
Measured Mohm	558.76	796.79	5097.91	1627.34
Corrected Mohm	122.00	131.00	366.00	250.00
pF Ph 1 to Ground	76600	76600	77100	76000
ohm Ph 1 to 2	0.02310	0.02300	0.02270	0.02260
ohm Ph 2 to 3	0.02330	0.02310	0.02270	0.02270
ohm Ph 3 to 1	0.02320	0.02320	0.02290	0.02280
mH Ph 1 to 2	3.004	3.225	2.897	3.118
mH Ph 2 to 3	3.154	2.925	3.185	3,069
mH Ph 3 to 1	2.721	2.734	2.749	2.707
verage Inductance	2.960	2.961	2,944	2.965
% Res. Imbalance	0.43	0.43	0.59	0.44
Al Ind Inchained	8.11	8.89	8.21	8.77



Date: 12/04/23 11:55 AMDated Test Event

Test Date	11/15/20	10/17/21	11/19/22	12/04/23
Test Time	10:25 AM	8:31 AM	9:48 AM	12:55 PM
Test Location	Of Fuses Local Dis	Not Assigned	Of Fuses Local Dis	T-Leads
Tester Serial	5095	5095	5095	5095
MTap ID				
	Baseline			
Voltage	500	1000	1000	500
Duration	000	600	600	600
D/A Ratio	1.687	1,459	1.328	1.276
Polar, Index	6.410	4.615	2.390	2.843

Remarks: Data looks good for this motor. No issues to report at this time.