Report TitleAnnual Motor Diagnostics ReportSubmitted ByChris SenterCreate Date07/24/21 10:04 AMAsset NameLow Vacuum pump fanDescriptionUSG



- EVERY DAY SINCE 1945

Test Date     08/01/20     07/20/21       Test Time     11:18 AM     2:17 PM       Test Coation     Of Fuses Local Disc     Bottom Fuses       Tester Serial     5095     5095       Map ID	Date: 07/20/21 2:17 PMDated Test Event			Test: Polarization Index Test
Test Location     Of Fuses Local Dis     Bottom Fuses       Tester Serial     5095     5095       MTap ID	Test Date	08/01/20	07/20/21	
Tester Serial     5095     5095       MTap ID	Test Time	11:18 AM	2:17 PM	400.00
Baseline     100.00       Charge Time     600     600       Voltage     500     1000       Motor Temp     24     30       Corrected Mohm     787.84     308.85       Corrected Mohm     787.84     308.85       Corrected Mohm     260.00     154.00       pF Ph 1 to Ground     40400     42100       ohm Ph 1 to 2     0.05780     0.05780       ohm Ph 3 to 1     0.05770     0.05760       mH Ph 3 to 1     0.05770     0.05760       mH Ph 3 to 1     3.018     2.865       Average Inductance     2.975     2.987       % Ind Inbalance     0.17     0.29       D/A Ratio     1208     1.045	Test Location	Of Fuses Local Disc	Bottom Fuses	
Baseline     100.00       Charge Time     600     600       Voltage     500     1000       Motor Temp     24     30       Corrected Mohm     787.84     308.85       Corrected Mohm     787.84     308.85       Corrected Mohm     260.00     154.00       pF Ph 1 to Ground     40400     42100       ohm Ph 1 to 2     0.05780     0.05780       ohm Ph 3 to 1     0.05770     0.05760       mH Ph 3 to 1     0.05770     0.05760       mH Ph 3 to 1     3.018     2.865       Average Inductance     2.975     2.987       % Ind Inbalance     0.17     0.29       D/A Ratio     1208     1.045	Tester Serial	5095	5095	
Beseine     Interview	MTap ID			
Charge Time   600   600     Voltage   500   1000     Word remp   24   30     Measured Mohm   787.84   308.85     Corrected Mohm   260.00   154.00     pF Ph 1 to Ground   40400   42100     ohm Ph 1 to 2   0.05780   0.05780     ohm Ph 3 to 1   0.05770   0.05780     ohm Ph 3 to 1   0.05770   0.05780     mH Ph 1 to 2   3.208   M Test Location   Of Fuses Local Dis   Bottom Fuses     Test Erial   5095   5095   MTap ID   Easeline   M Tap ID     Average Inductance   2.975   2.987   0.29   DIA     % Ind Imbalance   0.17   0.29   DIA		Baseline		100.00
Voltage     500     1000       Motor Temp     24     30       Measured Mohm     787.84     308.85       Corrected Mohm     260.00     154.00       pF Ph 1 to Ground     40400     42100       ohm Ph 1 to 2     0.05780     0.05780       ohm Ph 2 to 3     0.05790     0.05760       mH Ph 3 to 1     0.05770     0.05760       mH Ph 3 to 1     3.018     2.685       Average Inductance     2.975     2.987       % Ind Imbalance     0.17     0.29       % Ind Imbalance     9.29     10.82	Frequency	1200	1200	
Voltage     500     1000       Motor Temp     24     30       Measured Mohm     787.84     308.85       Corrected Mohm     260.00     154.00       pF Ph 1 to Ground     40400     42100       ohm Ph 1 to 2     0.05780     0.05780       ohm Ph 2 to 3     0.05790     0.05760       mH Ph 3 to 1     0.05770     0.05760       mH Ph 3 to 1     3.018     2.685       Average Inductance     2.975     2.987       % Ind Imbalance     0.17     0.29       % Ind Imbalance     9.29     10.82	Charge Time	600	600	ى
Motor Temp     24     30       Measured Mohm     787.84     308.85       Corrected Mohm     260.00     154.00       pF Ph 1 to Ground     40400     42100       ohm Ph 1 to 2     0.05780     0.05780       ohm Ph 2 to 3     0.05770     0.05760       mH Ph 1 to 2     3.208     Test Date     08/01/20     07/20/21       mH Ph 2 to 3     2.699     3.088     Motor Temp     Masses       Mm Ph 3 to 1     3.018     2.685     Motor Temp     Masses       Average Inductance     0.17     0.29     10.82       % Ind Imbalance     0.17     0.29     10.82	Voltage	500	1000	
Corrected Mohm     260.00     154.00       pF Ph 1 to Ground     40400     42100       ohm Ph 1 to 2     0.05780     0.05780       ohm Ph 2 to 3     0.05790     0.05760       ohm Ph 3 to 1     0.05770     0.05760       mH Ph 1 to 2     3.209     3.208       mH Ph 3 to 1     3.018     2.665       Average Inductance     2.975     2.987       % Res. Imbalance     0.17     0.29       % Ind. Imbalance     9.29     10.82	Motor Temp	24	30	
Corrected Mohm     260.00     154.00       pF Ph 1 to Ground     40400     42100       ohm Ph 1 to 2     0.05780     0.05780       ohm Ph 2 to 3     0.05790     0.05790       ohm Ph 3 to 1     0.05770     0.05760       mH Ph 1 to 2     3.209     3.208       mH Ph 2 to 3     2.699     3.089       mH Ph 3 to 1     3.018     2.665       Average Inductance     2.975     2.987       % Res. Imbalance     0.17     0.29       % Ind. Imbalance     9.29     10.82	Measured Mohm	787.84	308.85	Date: 07/20/21 2:17 PMDated Test Event
Image: production of the second of	Corrected Mohm	260.00	154.00	
ohm Ph 1 to 2     0.05780     0.05780     0.05780       ohm Ph 2 to 3     0.05790     0.05790     Test Time     11:18 AM     2:17 PM       ohm Ph 3 to 1     0.05770     0.05760     Test Location     Of Fuses Local Dis     Bottom Fuses       mH Ph 1 to 2     3.209     3.208     MTap ID     5095     5085       mH Ph 3 to 1     3.018     2.665     MTap ID     Baseline       Average Inductance     2.975     2.987     Duration     600     600       % Ind Imbalance     0.17     0.29     D/A Ratio     1.209     1.045	pF Ph 1 to Ground	40400	42100	
ohm Ph 2 to 3     0.05790     0.05790     0.05790     Test Location     Of Fuses Local Dis     Bottom Fuses       ohm Ph 3 to 1     0.05770     0.05760     Tester Serial     5095     5095       mH Ph 1 to 2     3.209     3.208     MTap ID     Baseline     1000       mH Ph 3 to 1     3.018     2.665     2.987     Duration     600     600       % Ind Imbalance     0.17     0.29     10.82     D/A Ratio     1.209     1.045	ohm Ph 1 to 2	0.05780	0.05780	
ohm Ph 3 to 1     0.05770     0.05760       mH Ph 1 to 2     3.209     3.208       mH Ph 2 to 3     2.699     3.089       mH Ph 3 to 1     3.018     2.655       Average Inductance     2.975     2.987       % Ind Imbalance     0.17     0.29       % Ind Imbalance     9.29     10.82	ohm Ph 2 to 3	0.05790	0.05790	and the second
mH Ph 1 to 2 3.209 3.208 MTap ID   mH Ph 2 to 3 2.699 3.089   mH Ph 3 to 1 3.018 2.665   Average Inductance 2.975 2.987   % Res. Imbalance 0.17 0.29   % Ind Imbalance 9.29 10.82	ohm Ph 3 to 1	0.05770	0.05760	
mH Ph 2 to 3 2.699 3.089 Baseline   mH Ph 3 to 1 3.018 2.665 Voltage 500 1000   Average Inductance 2.975 2.987 Duration 600 600   % Res. Imbalance 0.17 0.29 D/A Ratio 1.045	mHPh1 to2	3.209	3.208	
Average Inductance     2.975     2.987     Duration     600     600       % Res. Imbalance     0.17     0.29     D/A Ratio     1.045	mHPh2 to 3	2.699	3.089	
Average inductance     2.973     2.907     Description     Control     Contro     Control     Control	mHPh 3 to 1	3.018	2.665	Voltage 500 1000
% Res. Imbalance     0.17     0.29       % Ind Imbalance     9.29     10.82	Average Inductance	2.975	2.987	Duration 600 600
% Ind Imbalance 929 10.82	10.09	0.17	0.29	
	% Ind. Imbalance	9.29	10.82	United

1.112

Polar. Index

1.057

## Remarks:

The motor has not changed much since last test. It is in ok condition. The P.I test is a bit lower than last year, when the P.I test drops below 1 I will recommend changing the motor.