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.