

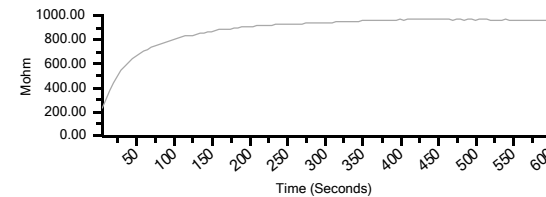
**Report Title** 2nd Quarter 2025 MCE Survey Report  
**Submitted By** Kevin Maxwell  
**Create Date** 07/01/25 10:09 AM  
**Asset Name** Wet Zone Circ. Fan  
**Description**



**Date: 03/03/24 9:30 AM** Dated Test Event

|                    |               |               |
|--------------------|---------------|---------------|
| Test Date          | 07/23/24      | 06/30/25      |
| Test Time          | 9:43 AM       | 8:43 AM       |
| Test Location      | Motor Leads   | Motor Leads   |
| User               | Administrator | Administrator |
| Tester Serial      | 5095          | 5095          |
| MTAP ID            |               |               |
|                    | Baseline      |               |
| Frequency          | 1200          | 1200          |
| Charge Time        | 600           | 600           |
| Voltage            | 2500          | 2500          |
| Motor Temp °C      | 24            | 22.7          |
| Measured Mohm      | 30.26         | 700.92        |
| Corrected Mohm     | 10.00         | 211.00        |
| pF Ph 1 to Ground  | 180,900       | 176,600       |
| ohm Ph 1 to 2      | 0.0207        | 0.1793        |
| ohm Ph 2 to 3      | 0.0206        | 0.1789        |
| ohm Ph 3 to 1      | 0.0207        | 0.1791        |
| mH Ph 1 to 2       | 27.92         | 24.95         |
| mH Ph 2 to 3       | 23.48         | 26.54         |
| mH Ph 3 to 1       | 25.16         | 29.87         |
| Average Inductance | 25.52         | 27.12         |
| % Res. Imbalance   | 0.32          | 0.11          |
| % Ind. Imbalance   | 9.40          | 10.14         |

**Date: 06/30/25 8:43 AM** Test: Polarization Index Test



**Date: 03/03/24 9:30 AM** Dated Test Event

|               |               |               |
|---------------|---------------|---------------|
| Test Date     | 07/23/24      | 06/30/25      |
| Test Time     | 9:43 AM       | 8:43 AM       |
| Test Location | Motor Leads   | Motor Leads   |
| User          | Administrator | Administrator |
| Tester Serial | 5095          | 5095          |
| MTAP ID       |               |               |
|               | Baseline      |               |
| Voltage       | 2500          | 2500          |
| Duration      | 600           | 600           |
| D/A Ratio     | 1.140         | 1.303         |
| Polar. Index  | 1.226         | 1.364         |

**Remarks:** No issues to note this survey. Monitor as normal.

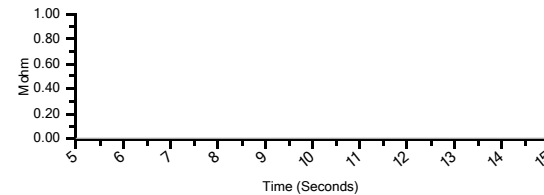
Report Title 2nd Quarter 2025 MCE Survey Report  
 Submitted By Kevin Maxwell  
 Create Date 07/01/25 10:14 AM  
 Asset Name Dry Zone Circ. Fan 0883  
 Description



Date: 06/30/25 9:12 AM Dated Test Event

|                    |               |               |               |               |
|--------------------|---------------|---------------|---------------|---------------|
| Test Date          | 11/21/22      | 07/17/23      | 07/23/24      | 06/30/25      |
| Test Time          | 1:06 PM       | 11:01 AM      | 8:59 AM       | 9:12 AM       |
| Test Location      | Motor Leads   | Motor Leads   | Motor Leads   | Motor Leads   |
| User               | Administrator | Administrator | Administrator | Administrator |
| Tester Serial      | 5095          | 5095          | 5095          | 5095          |
| MTAP ID            |               |               |               |               |
|                    | Baseline      |               |               |               |
| Frequency          | 1200          | 1200          | 1200          | 1200          |
| Charge Time        | 600           | 600           | 600           | 600           |
| Voltage            | 2500          | 2500          | 2500          | 2500          |
| Motor Temp °C      | 14            | 28            | 24            | 22.7          |
| Measured Mohm      | 25.371.81     | 633.88        | 0.00          | 0.00          |
| Corrected Mohm     | 4.200.00      | 276.00        | N/C           | N/C           |
| pF Ph 1 to Ground  | 96.700        | 124.500       | 216.000       | < 2000        |
| ohm Ph 1 to 2      | 0.1808        | 0.1911        | 0.0222        | 0.1921        |
| ohm Ph 2 to 3      | 0.1807        | 0.1908        | 0.0222        | 0.0777        |
| ohm Ph 3 to 1      | 0.1808        | 0.1909        | 0.0222        | 0.1441        |
| mH Ph 1 to 2       | 9.075         | 9.140         | 9.125         | 9.140         |
| mH Ph 2 to 3       | 9.100         | 9.130         | 9.115         | 9.090         |
| mH Ph 3 to 1       | 9.075         | 9.140         | 9.110         | 9.150         |
| Average Inductance | 9.085         | 9.135         | 9.115         | 9.130         |
| % Res. Imbalance   | 0.04          | 0.09          | 0.30          | 43.68         |
| % Ind. Imbalance   | 0.18          | 0.07          | 0.09          | 0.40          |

Date: 06/30/25 9:28 AM Test: Polarization Index Test



Date: 06/30/25 9:28 AM Dated Test Event

|               |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|
| Test Date     | 11/21/22      | 07/23/24      | 06/30/25      | 06/30/25      |
| Test Time     | 1:06 PM       | 8:59 AM       | 9:12 AM       | 9:28 AM       |
| Test Location | Not Assigned  | Motor Leads   | Motor Leads   | Motor Leads   |
| User          | Administrator | Administrator | Administrator | Administrator |
| Tester Serial | 5095          | 5095          | 5095          | 5095          |
| MTAP ID       |               |               |               |               |
|               | Baseline      |               |               |               |
| Voltage       | 2500          | 2500          | 2500          | 2500          |
| Duration      | 600           | 15            | 15            | 15            |
| D/A Ratio     | 1.618         | N/C           | N/C           | N/C           |
| Polar. Index  | 6.868         | N/C           | N/C           | N/C           |

Remarks: **NEEDS ATTENTION SOON** MCE tests show significant issues with this stator. For two years in a row, the motor is megging 0. This most recent test now shows a significant increase in resistive imbalance. Last year, the value .09%. This year, the value is 43%. This indicates issues such as shorts within the coils and or internal connections and or high resistive connections. 0 Mohm reading suggests insulation issues. These readings are very concerning and motor should be swapped out at the earliest opportunity.

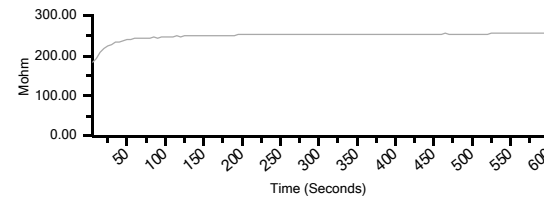
Report Title 2nd Quarter 2025 MCE Survey Report  
 Submitted By Kevin Maxwell  
 Create Date 07/01/25 10:15 AM  
 Asset Name #1 Vacuum Pump  
 Description



Date: 06/30/25 10:13 AM Dated Test Event

|                    |               |               |
|--------------------|---------------|---------------|
| Test Date          | 07/23/24      | 06/30/25      |
| Test Time          | 10:44 AM      | 10:13 AM      |
| Test Location      | Motor Leads   | Motor Leads   |
| User               | Administrator | Administrator |
| Tester Serial      | 5095          | 5095          |
| MTAP ID            |               |               |
|                    | Baseline      |               |
| Frequency          | 1200          | 1200          |
| Charge Time        | 600           | 600           |
| Voltage            | 500           | 500           |
| Motor Temp °C      | 27            | 28.1          |
| Measured Mohm      | 269.67        | 241.38        |
| Corrected Mohm     | 110.00        | 106.00        |
| pF Ph 1 to Ground  | 94,100        | 106,700       |
| ohm Ph 1 to 2      | 0.00360       | 0.0308        |
| ohm Ph 2 to 3      | 0.00361       | 0.0308        |
| ohm Ph 3 to 1      | 0.00362       | 0.0308        |
| mH Ph 1 to 2       | 1.735         | 1.740         |
| mH Ph 2 to 3       | 2.080         | 2.070         |
| mH Ph 3 to 1       | 2.020         | 1.860         |
| Average Inductance | 1.945         | 1.890         |
| % Res. Imbalance   | 0.29          | 0.00          |
| % Ind. Imbalance   | 10.80         | 9.52          |

Date: 06/30/25 10:13 AM Test: Polarization Index Test



Date: 06/30/25 10:13 AM Dated Test Event

|               |               |               |
|---------------|---------------|---------------|
| Test Date     | 07/23/24      | 06/30/25      |
| Test Time     | 10:44 AM      | 10:13 AM      |
| Test Location | Motor Leads   | Motor Leads   |
| User          | Administrator | Administrator |
| Tester Serial | 5095          | 5095          |
| MTAP ID       |               |               |
|               | Baseline      |               |
| Voltage       | 500           | 500           |
| Duration      | 600           | 600           |
| D/A Ratio     | 1.069         | 1.059         |
| Polar. Index  | 1.074         | 1.055         |

Remarks: Other than the PI test showing a flat PI profile, no issues to report. The flat PI is likely due to the high moisture environment that this motor is in. Monitor as normal.

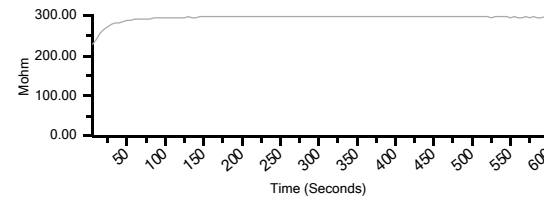
Report Title 2nd Quarter 2025 MCE Survey Report  
 Submitted By Kevin Maxwell  
 Create Date 07/01/25 10:18 AM  
 Asset Name #2 Vacuum Pump  
 Description



Date: 06/30/25 10:30 AM Dated Test Event

|                    |                     |               |               |               |
|--------------------|---------------------|---------------|---------------|---------------|
| Test Date          | 08/01/20            | 07/17/23      | 07/23/24      | 06/30/25      |
| Test Time          | 9:25 AM             | 12:58 PM      | 11:17 AM      | 10:30 AM      |
| Test Location      | ocal Disconnect - L | Motor Leads   | Motor Leads   | Motor Leads   |
| User               | Administrator       | Administrator | Administrator | Administrator |
| Tester Serial      | 5095                | 5095          | 5095          | 5095          |
| MTAP ID            |                     |               |               |               |
|                    | Baseline            |               |               |               |
| Frequency          | 1200                | 1200          | 1200          | 1200          |
| Charge Time        | 600                 | 600           | 600           | 600           |
| Voltage            | 500                 | 500           | 500           | 500           |
| Motor Temp °C      | 24                  | 32            | 27            | 28.2          |
| Measured Mohm      | 6,235.60            | 370.61        | 298.56        | 289.06        |
| Corrected Mohm     | 2,100.00            | 213.00        | 121.00        | 128.00        |
| pF Ph 1 to Ground  | 93.400              | 93.300        | 87.700        | 92.800        |
| ohm Ph 1 to 2      | 0.0254              | 0.0265        | 0.00312       | 0.0265        |
| ohm Ph 2 to 3      | 0.0254              | 0.0264        | 0.00308       | 0.0264        |
| ohm Ph 3 to 1      | 0.0254              | 0.0263        | 0.00309       | 0.0264        |
| mH Ph 1 to 2       | 1.625               | 1.540         | 1.660         | 1.535         |
| mH Ph 2 to 3       | 1.365               | 1.385         | 1.480         | 1.575         |
| mH Ph 3 to 1       | 1.600               | 1.665         | 1.410         | 1.330         |
| Average Inductance | 1.530               | 1.530         | 1.520         | 1.480         |
| % Res. Imbalance   | 0.00                | 0.38          | 0.84          | 0.25          |
| % Ind. Imbalance   | 10.78               | 9.48          | 9.45          | 10.14         |

Date: 06/30/25 10:30 AM Test: Polarization Index Test



Date: 06/30/25 10:30 AM Dated Test Event

|               |                      |               |               |               |
|---------------|----------------------|---------------|---------------|---------------|
| Test Date     | 08/01/20             | 07/17/23      | 07/23/24      | 06/30/25      |
| Test Time     | 9:25 AM              | 12:58 PM      | 11:17 AM      | 10:30 AM      |
| Test Location | ocal Disconnect - Li | Motor Leads   | Motor Leads   | Motor Leads   |
| User          | Administrator        | Administrator | Administrator | Administrator |
| Tester Serial | 5095                 | 5095          | 5095          | 5095          |
| MTAP ID       |                      |               |               |               |
|               | Baseline             |               |               |               |
| Voltage       | 500                  | 500           | 500           | 500           |
| Duration      | 600                  | 600           | 600           | 600           |
| D/A Ratio     | 1.383                | 1.060         | 1.069         | 1.046         |
| Polar. Index  | 1.791                | 1.015         | 1.091         | 1.018         |

Remarks: Other than the PI test showing a flat PI profile, no issues to report. The flat PI is likely due to the high moisture environment that this motor is in. Monitor as normal.

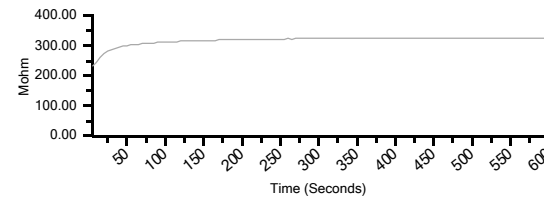
Report Title 2nd Quarter 2025 MCE Survey Report  
 Submitted By Kevin Maxwell  
 Create Date 07/01/25 10:20 AM  
 Asset Name #3 Vacuum Pump  
 Description



Date: 06/30/25 10:48 AM Dated Test Event

|                    |               |                     |               |               |
|--------------------|---------------|---------------------|---------------|---------------|
| Test Date          | 07/21/21      | 07/17/23            | 07/23/24      | 06/30/25      |
| Test Time          | 7:24 AM       | 1:33 PM             | 1:03 PM       | 10:48 AM      |
| Test Location      | Not Assigned  | verloads - Load Sid | Motor Leads   | Motor Leads   |
| User               | Administrator | Administrator       | Administrator | Administrator |
| Tester Serial      | 5095          | 5095                | 5095          | 5095          |
| MTAP ID            |               |                     |               |               |
|                    | Baseline      |                     |               |               |
| Frequency          | 1200          | 1200                | 1200          | 1200          |
| Charge Time        | 600           | 600                 | 600           | 600           |
| Voltage            | 1000          | 500                 | 500           | 500           |
| Motor Temp °C      | 26            | 32                  | 28            | 28.3          |
| Measured Mohm      | 565.81        | 295.46              | 268.69        | 302.00        |
| Corrected Mohm     | 214.00        | 170.00              | 117.00        | 134.00        |
| pF Ph 1 to Ground  | 96.500        | 98.600              | 87.400        | 99.800        |
| ohm Ph 1 to 2      | 0.0245        | 0.0249              | 0.00286       | 0.0274        |
| ohm Ph 2 to 3      | 0.0244        | 0.0247              | 0.00293       | 0.0273        |
| ohm Ph 3 to 1      | 0.0244        | 0.0247              | 0.00292       | 0.0273        |
| mH Ph 1 to 2       | 1.735         | 1.610               | 1.875         | 1.865         |
| mH Ph 2 to 3       | 2.095         | 1.930               | 2.005         | 1.680         |
| mH Ph 3 to 1       | 1.770         | 2.040               | 1.585         | 1.565         |
| Average Inductance | 1.870         | 1.860               | 1.855         | 1.705         |
| % Res. Imbalance   | 0.27          | 0.54                | 0.73          | 0.24          |
| % Ind. Imbalance   | 12.23         | 13.44               | 14.56         | 9.49          |

Date: 06/30/25 10:48 AM Test: Polarization Index Test



Date: 06/30/25 10:48 AM Dated Test Event

|               |               |                     |               |               |
|---------------|---------------|---------------------|---------------|---------------|
| Test Date     | 07/21/21      | 07/17/23            | 07/23/24      | 06/30/25      |
| Test Time     | 7:24 AM       | 1:33 PM             | 1:03 PM       | 10:48 AM      |
| Test Location | Not Assigned  | verloads - Load Sid | Motor Leads   | Motor Leads   |
| User          | Administrator | Administrator       | Administrator | Administrator |
| Tester Serial | 5095          | 5095                | 5095          | 5095          |
| MTAP ID       |               |                     |               |               |
|               | Baseline      |                     |               |               |
| Voltage       | 1000          | 500                 | 500           | 500           |
| Duration      | 600           | 600                 | 600           | 600           |
| D/A Ratio     | 1.197         | 1.043               | 1.073         | 1.052         |
| Polar. Index  | 1.298         | 1.007               | 1.081         | 1.085         |

Remarks: Other than the PI test showing a flat PI profile, no issues to report. The flat PI is likely due to the high moisture environment that this motor is in. Monitor as normal.

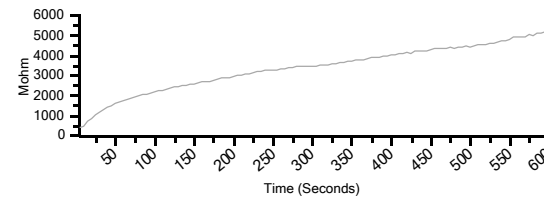
Report Title 2nd Quarter 2025 MCE Survey Report  
 Submitted By Kevin Maxwell  
 Create Date 07/01/25 10:21 AM  
 Asset Name Low Vacuum pump fan  
 Description



Date: 06/30/25 11:08 AM Dated Test Event

|                    |                                         |                   |                   |                   |
|--------------------|-----------------------------------------|-------------------|-------------------|-------------------|
| Test Date          | 08/01/20                                | 07/17/23          | 07/23/24          | 06/30/25          |
| Test Time          | 10:18 AM                                | 11:39 AM          | 1:27 PM           | 11:08 AM          |
| Test Location      | ocal Disconnect - Lcverloads - Load Sid | Disconnect - Load | Disconnect - Load | Disconnect - Load |
| User               | Administrator                           | Administrator     | Administrator     | Administrator     |
| Tester Serial      | 5095                                    | 5095              | 5095              | 5095              |
| MTAP ID            |                                         |                   |                   |                   |
|                    | Baseline                                |                   |                   |                   |
| Frequency          | 1200                                    | 1200              | 1200              | 1200              |
| Charge Time        | 600                                     | 600               | 600               | 600               |
| Voltage            | 500                                     | 500               | 500               | 500               |
| Motor Temp °C      | 24                                      | 29                | 29                | 28.4              |
| Measured Mohm      | 787.84                                  | 1,315.65          | 1,859.61          | 1,722.17          |
| Corrected Mohm     | 260.00                                  | 610.00            | 870.00            | 770.00            |
| pF Ph 1 to Ground  | 40.400                                  | 39.800            | 36.500            | 44.400            |
| ohm Ph 1 to 2      | 0.0578                                  | 0.0580            | 0.00882           | 0.0583            |
| ohm Ph 2 to 3      | 0.0579                                  | 0.0581            | 0.00878           | 0.0585            |
| ohm Ph 3 to 1      | 0.0577                                  | 0.0579            | 0.00877           | 0.0584            |
| mH Ph 1 to 2       | 3.210                                   | 3.125             | 2.945             | 2.705             |
| mH Ph 2 to 3       | 2.700                                   | 3.225             | 3.285             | 2.835             |
| mH Ph 3 to 1       | 3.020                                   | 2.665             | 2.710             | 3.225             |
| Average Inductance | 2.975                                   | 3.005             | 2.980             | 2.925             |
| % Res. Imbalance   | 0.17                                    | 0.17              | 0.44              | 0.17              |
| % Ind. Imbalance   | 9.29                                    | 11.31             | 10.23             | 10.38             |

Date: 06/30/25 11:08 AM Test: Polarization Index Test



Date: 06/30/25 11:08 AM Dated Test Event

|               |                                         |                   |                   |                   |
|---------------|-----------------------------------------|-------------------|-------------------|-------------------|
| Test Date     | 08/01/20                                | 07/17/23          | 07/23/24          | 06/30/25          |
| Test Time     | 10:18 AM                                | 11:39 AM          | 1:27 PM           | 11:08 AM          |
| Test Location | ocal Disconnect - Lcverloads - Load Sid | Disconnect - Load | Disconnect - Load | Disconnect - Load |
| User          | Administrator                           | Administrator     | Administrator     | Administrator     |
| Tester Serial | 5095                                    | 5095              | 5095              | 5095              |
| MTAP ID       |                                         |                   |                   |                   |
|               | Baseline                                |                   |                   |                   |
| Voltage       | 500                                     | 500               | 500               | 500               |
| Duration      | 600                                     | 600               | 600               | 600               |
| D/A Ratio     | 1.209                                   | 1.420             | 1.502             | 1.487             |
| Polar. Index  | 1.112                                   | 2.722             | 1.907             | 3.004             |

Remarks: No issues to note this survey. Monitor as normal.