

# EVERY DAY SINCE 1946

LR Motor Shop Repairs

# Job Number 101889

Prepared for Delta Plastics (11016)

8801 Frazier Pike Little Rock AR 72206

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AC Random Coil Rewind Report



Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

FolderID: 101889

FormID: 17945063

AC Inspection as Found

Delta Plastics (11016) 8801 Frazier Pike Little Rock, AR 72206

#### AC Inspection - Rev. 2

| Location:     | MOTOR SHOP LR |
|---------------|---------------|
| Serial Number |               |

| Seria | II NUMBER: |  |
|-------|------------|--|
|       |            |  |

Description:250 HP BALDOR

| Hi-Speed Job Number: | 101889            |
|----------------------|-------------------|
| Manufacturer:        | Baldor            |
| Product Number:      | IDDRPM322504      |
| Serial Number:       | S9142417-001002JR |
| HP/kW:               | 250 (HP)          |
| RPM:                 | 1765 (RPM)        |
| Frame:               | L3203             |
| Voltage:             | 460               |
| Current:             | 295               |
| Phase:               | Three             |
| Hz:                  | 60 (Hz)           |
| Service Factor:      | 1.00              |
| Enclosure:           | DP                |
| J-box Included:      | Complete          |
| Coupling/Sheave:     | None              |
| Date Received:       | 09/21/2023        |
| Repair Stage:        | Final             |
|                      |                   |

#### Priorities Found: 🛑 10 - High

4 - Good

## **Overall Condition**

- 1. Report Date
- 2. Nameplate Picture



3. Photos of all six sides of the machine.

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10/24/2023













 Describe the Overall Condition of the Equipment as Received Dirty

|    |       | -                               |           |
|----|-------|---------------------------------|-----------|
| In | itial | Mechanical/Electrical           |           |
|    | 5.    | Does Shaft Turn Freely?         | (Yes) Yes |
|    | 6.    | Does Shaft Have Visible Damage? | (No) No   |
|    | 7.    | Assembled Shaft Runout          | 0 Inches  |
|    | 8.    | Assembled Shaft End Play        | 0 inches  |
|    | 9.    | Air Gap Variation <10%          | none      |

| <b>1</b> 0. | Lead Condition                     |                | (NA) N          | ot Applicable |
|-------------|------------------------------------|----------------|-----------------|---------------|
|             | Rewind                             |                |                 |               |
| 11.         | Lead Length                        |                |                 | 17 Inches     |
| 12.         | Lead Numbers                       |                |                 | 1-1/2-2/3-3   |
| 13.         | Stator Temperature Detector Rating | and Function   |                 |               |
|             | Quantity                           | Rating         | Quantity Passed |               |
|             | 0                                  | 0              | 0               |               |
| 14.         | Bearing Temperature Detector Ratin | g and Function |                 |               |
|             | Quantity                           | Rating         | Quantity Passed |               |
|             | 0                                  | 0              | 0               |               |
| 15.         | Frame Condition                    |                |                 | pass          |
| 16.         | Fan Condition                      |                |                 | (N) NA        |
| 17.         | Heater Quantity, Ratings           |                |                 |               |
|             | Quantity                           | Volts/Watts    | Pass/Fail       |               |
|             | 0                                  | 0              | 0               |               |
| 18.         | Broken or Missing Components       |                |                 | na            |
| Initial     | Electrical Inspection              |                |                 |               |
| 19.         | Insulation Resistance/Megger       |                |                 | 0 Megohms     |
| 20.         | Winding Resistance                 |                |                 |               |
|             | 1-2                                | 1-3            | 2-3             |               |
|             | 0                                  | 0              | 0               |               |

#### (NA) Not Applicable

Perform Surge Test
Rewind





| 0                          | Number of Stator Slots                                     |
|----------------------------|--|
| rewind                     | Stator Condition   |
| 0                          | Stator Thermistors/Ohms                                    |
| 0.01                       | Stator Overloads/Ohms                                      |
|                            | nanical Inspection   |
| na                         | Drive End Bearing Brand                                    |
| 6217                       | Drive End Bearing Number-                                  |
| 1                          | Drive End Bearing Qty.                                     |
| (Ball) Ball Bearing        | Drive End Bearing Type                                     |
| (Grease) Grease Lubricated | Drive End Lubrication Type                                 |
| na                         | Drive End Bearing Insulation or Grounding Device?          |
| wavy washer                | Drive End Wavy Washer/Snap-Ring Other Retention Device?    |
| signs of chemical burn     | Drive End Bearing Condition                                |
| na                         | Opposite Drive End Bearing Brand                           |
| 6213                       | Opposite Drive End Bearing Number-                         |
| 1                          | Opposite Drive End Bearing Qty.                            |
| (Ball) Ball Bearing        | Opposite Drive End Bearing Type                            |
|                            | Hybrid ball bearing  |
| (Grease) Grease Lubricated | Opposite Drive End Lubrication Type                        |
| hybrid balls               | Opposite Drive End Bearing Insulation or Grounding Device? |

| 40.   | Opposite Drive End Wavy Washer/S  | nap-Ring Other Retention Device? | na   |
|-------|---|----------------------------------|--|
| 41.   |   |                                  | normal wear  |
|       | Drive End Seal  |                                  | na   |
|       | Opposite Drive End Seal   |                                  | na   |
|       | DE Sleeve Bearing Inside Diameter   |                                  |  |
|       | 0 degrees   | 120 degrees                      | 240 degrees  |
|       | 0   | 0                                | 0  |
| 45.   | DE Sleeve Bearing Outside Diamete   | •                                |  |
|       | 0 degrees   | 120 degrees                      | 240 degrees  |
|       | 0   | 0                                | 0  |
| 46.   | DE Sleeve Bearing Housing Inside D  |                                  |  |
|       | 0 degrees   | 120 degrees                      | 240 degrees  |
|       | 0   | 0                                | 0  |
| 47.   | DE Sleeve Bearing to Housing Clear  | •                                |  |
|       | 0 degrees   | 120 degrees                      | 240 degrees  |
|       | 0   | 0                                | 0  |
| 48.   | ODE Sleeve Bearing Inside Diamete   | · · ·                            | -  |
|       | 0 degrees   | 120 degrees                      | 240 degrees  |
|       | 0   | 0                                | 0  |
| 49.   | ODE Sleeve Bearing Outside Diame  |                                  |  |
| -     | 0 degrees   | 120 degrees                      | 240 degrees  |
|       | 0   | 0                                | 0  |
| 50.   | ODE Sleeve Bearing Housing Inside   | Diameter                         |  |
|       | 0 degrees   | 120 degrees                      | 240 degrees  |
|       | 0   | 0                                | 0  |
| 51.   | ODE Sleeve Bearing to Housing Cle   | •                                |  |
| -     | 0 degrees   | 120 degrees                      | 240 degrees  |
|       | 0   | 0                                | 0  |
| otor  | Inspection  | -                                | -  |
|       | Rotor Type/Material   |                                  | (Squirrel Aluminum) Squirrel<br>Cage Aluminum Die Cast |
| 53.   | Growler Test  |                                  | (Pass) Pass  |
| 54.   | Number of Rotor Bars  |                                  | 0  |
| 55.   | Rotor Condition   |                                  | pass   |
| 56.   | List the Parts needed for the Repair  | Below                            |  |
|       | 6217 end bell bearing fit sleeve<br>6213 end bell bearing fit sleeve<br>6217 bearing<br>6213 hybrid bearing |                                  |  |
| 57.   | Signature of Technician that Disasse  | mbled Motor                      | Cw   |
| l     | $\int \mathcal{L}$  |                                  |  |
| lecha | anical Fits- Rotor  |                                  |  |
| 58.   | Shaft Runout  |                                  | 0 inches   |

|   | 59.  | Rotor Runout                           |                                |                            |
|---|------|--|--------------------------------|----------------------------|
|   |      | Drive End Bearing Fit                  | Rotor Body                     | Opposite Drive End Bearing |
|   |      | 0                                      | 0                              | 0                          |
|   | 60.  | Coupling Fit Closest to Bearing Housi  | ng                             |                            |
|   |      | 0 Degrees                              | 90 Degrees                     | 120 Degrees                |
|   |      | 0                                      | 0                              | 0                          |
|   | 61.  | Coupling Fit Closest to the end of the | Shaft                          |                            |
|   |      | 0 Degrees                              | 60 Degrees                     | 120 Degrees                |
|   |      | 0                                      | 0                              | 0                          |
|   | 62.  | Drive End Bearing Shaft Fit            |                                |                            |
|   |      | 0 Degrees                              | 60 Degrees                     | 120 Degrees                |
|   |      | 3.3471                                 | 3.3472                         | 3.347                      |
|   |      | Drive End Bearing Shaft Fit Condition  |                                | (P) Pass                   |
|   | 64.  | Opposite Drive End Bearing Shaft Fit   |                                |                            |
|   |      | 0 Degrees                              | 60 Degrees                     | 120 Degrees                |
|   |      | 2.5594                                 | 2.5592                         | 2.5593                     |
|   |      | Opposite Drive End Bearing Shaft Fit   | Condition                      | (P) Pass                   |
|   | 66.  | Shaft Air Seal Fits                    |                                |                            |
|   |      | Drive End Air Seal                     | Opposite Drive End Air Seal    |                            |
|   |      | ok                                     | ok                             |                            |
| Ν |      | anical Fits- Bearing Housings          |                                |                            |
|   | 67.  | Drive End - Endbell Bearing Fit        |                                |                            |
|   |      | 0 Degrees                              | 60 Degrees                     | 120 Degrees                |
|   |      | 5.9072                                 | 5.9075                         | 5.907                      |
|   |      | Drive End - Endbell Bearing Fit Condi  |                                | (F) Fail                   |
|   | 69.  | Opposite Drive End - Endbell Bearing   |                                |                            |
|   |      | 0 Degrees                              | 60 Degrees                     | 120 Degrees                |
|   |      | 4.7257                                 | 4.7259                         | 4.7256                     |
|   |      | Opposite Drive End - Endbell Bearing   | Fit Condition                  | (F) Fail                   |
|   | 71.  | Bearing Cap Condition                  |                                |                            |
|   |      | Drive End Bearing Cap                  | Opposite Drive End Bearing Cap |                            |
|   |      | Pass                                   |                                |                            |
|   | 72.  | End Bell Air Seal Fits                 |                                |                            |
|   | 12.  | Drive End Air Seal                     | Opposite Drive End Air Seal    |                            |
|   |      | ok                                     | ok                             |                            |
|   | 73.  |  |                                |                            |
|   | 10.  | Both end bell bearing fits             |                                |                            |
|   | 74.  | Technician                             |                                | Cw                         |
|   |      |  |                                | -                          |
|   |      | IND                                    | 1/                             |                            |
|   |      | 1100                                   |                                |                            |
|   |      |  |                                |                            |
| D | ynar | nic Balance Report                     |                                |                            |

| 75    | Datas Waight and Dalance Crade         |                    |                            |
|-------|--|--------------------|----------------------------|
| 75.   | Rotor Weight and Balance Grade         |                    |                            |
|       | Rotor Weight                           | Balance Grade      |                            |
| =     | 0                                      | 0                  |                            |
| 76.   | Initial Balance Readings               |                    |                            |
|       | Drive End                              | Opposite Drive End |                            |
|       | 0.41                                   | 0.31               |                            |
| 77.   | Final Balance Readings                 |                    |                            |
|       | Drive End                              | Opposite Drive End |                            |
|       | 0.19                                   | 0.10               |                            |
| 78.   | Technician                             |                    | David Maclin               |
| Rewin | nd                                     |                    |                            |
|       | Core Test Results - Watts loss per Po  | bund               |                            |
|       | Pre-Burnout                            | Post Burnout       |                            |
|       | 0                                      | 0                  |                            |
| 80.   | Core Hot Spot Test                     | -                  |                            |
|       | Pre-Burnout                            | Post-Burnout       |                            |
|       | 0                                      | 0                  |                            |
| 81    | Post Rewind Electrical Test- Insulatio |                    | 0 Megohms                  |
|       | Post Rewind Polarization Index         |                    | 0 Polarization Index       |
|       | Post Rewind Winding Resistance         |                    |                            |
| 00.   | 1-2                                    | 1-3                | 2-3                        |
|       | 0                                      | 0                  | 0                          |
| 9.4   | Post Rewind Surge Test                 | 0                  | (Fail) Fail                |
| 85.   |  |                    | 0 micro-amps               |
| 86.   |  |                    | David Maclin               |
|       | $\square$                              | $\mathcal{A}$      |                            |
|       | Cause of Failure                       |                    |                            |
| 87.   | Failure locations                      |                    |                            |
|       | Bearings and windings                  |                    |                            |
| 88.   | Root cause of failure                  |                    |                            |
|       | Wear and turn to turn short            |                    |                            |
| Mech  | anical Fits- Rotor - Post Repair       |                    |                            |
| 89.   | Shaft Runout Post Repair               |                    | 0 inches                   |
| 90.   | Rotor Runout Post Repair               |                    |                            |
|       | Drive End Bearing Fit                  | Rotor Body         | Opposite Drive End Bearing |
|       | 0                                      | 0                  | 0                          |
| 91.   | Coupling Fit Closest to Bearing Hous   | ing Post Repair    |                            |
|       | 0 Degrees                              | 90 Degrees         | 120 Degrees                |
|       | 0                                      | 0                  | 0                          |
|       |  |                    |                            |

| 92.    | Coupling Fit Closest to the end of the                                    | Shaft Post Repair           |             |        |
|--------|---|-----------------------------|-------------|--------|
|        | 0 Degrees   | 60 Degrees                  | 120 Degrees |        |
|        | 0   | 0                           | 0           |        |
| 93.    | Drive End Bearing Shaft Fit Post Rep                                      | air                         |             |        |
|        | 0 Degrees   | 60 Degrees                  | 120 Degrees |        |
|        | 0   | 0                           | 0           |        |
| 94.    | Opposite Drive End Bearing Shaft Fit                                      | Post Repair                 |             |        |
|        | 0 Degrees   | 60 Degrees                  | 120 Degrees |        |
|        | 0   | 0                           | 0           |        |
| 95.    | Shaft Air Seal Fits Post Repair   |                             |             |        |
|        | Drive End Air Seal  | Opposite Drive End Air Seal |             |        |
|        | ok  | ok                          |             |        |
| 96.    | Shaft Repair Sign-off   |                             | David       | Maclin |
|        |   | 7                           |             |        |
|        |   |                             |             |        |
|        | $\Box$  | $\langle \rangle$           |             |        |
| /lecha | anical Fits- Bearing Housings - F   | Post Repair                 |             |        |
|        | anical Fits- Bearing Housings - F<br>Drive End - Endbell Bearing Fit Post |                             |             |        |
|        |   |                             | 120 Degrees |        |



| 98. | Opposite Drive End - Endbell Bearing Fit Post Repair |  |
|-----|--|--|
|-----|--|--|

|           | 5          |             |
|-----------|------------|-------------|
| 0 Degrees | 60 Degrees | 120 Degrees |
| 4.725     | 4.725      | 4.725       |



| 99.   Bearing Cap Condition Post Repair     Drive End Bearing Cap   Opposite Drive End Bearing Cap     ok   ok     100.   End Bell Air Seal Fits Post Repair     Drive End Air Seal   Opposite Drive End Air Seal     ok   ok     101.   Drive End Air Seal     ok   ok     102.   Drive End Air Seal     103.   DE Sleeve Bearing Inside ID Post Repair     Measure 1   Measure 2     Measure 3   0     010.   DE Sleeve Bearing Inside OD Post Repair     Measure 1   Measure 2     Measure 3   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0     0   0   | 00   |                                     |                                |           |      |
|---|------|-------------------------------------|--------------------------------|-----------|------|
| okok100.End Bell Air Seal Fits Post RepairDrive End Air SealOpposite Drive End Air Sealokok101.DE Sleeve Bearing Inside ID Post Repair101.DE Sleeve Bearing Inside ID Post RepairMeasure 1Measure 200102.DE Sleeve Bearing Outside ID Post Repair103.DE Sleeve Bearing Inside OD Post Repair104.DE Sleeve Bearing Inside OD Post Repair105.DE Sleeve Bearing Inside OD Post Repair106.0107.Opposite Devel108.DE Sleeve Bearing Inside OD Post Repair109.DE Sleeve Bearing Outside OD Post Repair109.De Sleeve Bearing Outside OD Post Repair109.Opposite Devel109.Opposite Devel  | 99.  | Bearing Cap Condition Post Repair   |                                |           |      |
| 100. End Bell Air Seal Fits Post RepairDrive End Air SealOpposite Drive End Air Sealokok101.DE Sleeve Bearing Inside ID Post RepairMeasure 1Measure 2Measure 1Measure 2DE Sleeve Bearing Outside ID Post Repair102.DE Sleeve Bearing Outside ID Post RepairMeasure 1Measure 2Measure 3Measure 3Measure 4Measure 2Measure 5Measure 3Measure 1Measure 2Measure 3Measure 3Measure 4Measure 2Measure 5Measure 3Measure 6Measure 3Measure 7Measure 3Measure 8Measure 8Measure 9Measure 8Measure 9Measure 8Measure 9Measure 8Measure 9Measure 8Measure 9Measure 8Measure 9Measure 9 <t< td=""><td></td><td>Drive End Bearing Cap</td><td>Opposite Drive End Bearing Cap</td><td></td><td></td></t<> |      | Drive End Bearing Cap               | Opposite Drive End Bearing Cap |           |      |
| Drive End Air SealOpposite Drive End Air Sealokok101DE Sleeve Bearing Inside ID Post Restrict101DE Sleeve Bearing Inside ID Post Restrict102De Sleeve Bearing Outside ID Post Restrict103DE Sleeve Bearing Outside ID Post Restrict104De Sleeve Bearing Inside OD Post Restrict105De Sleeve Bearing Inside OD Post Restrict105De Sleeve Bearing Inside OD Post Restrict105De Sleeve Bearing Inside OD Post Restrict106De Sleeve Bearing Inside OD Post Restrict107De Sleeve Bearing Inside OD Post Restrict108De Sleeve Bearing Inside OD Post Restrict109De Sleeve Bearing Outside OD Post Restrict1014De Sleeve Bearing Outside OD Post Restrict  |      | ok                                  | ok                             |           |      |
| okok101.DE Sleeve Bearing Inside ID Post ReserveMeasure 1Measure 200102.DE Sleeve Bearing Outside ID Post ReserveMeasure 1Measure 2Measure 1Measure 200103.DE Sleeve Bearing Inside OD Post Reserve104.Measure 1Measure 1Measure 200105.0106.0107.0108.0109. </td <td>100.</td> <td>End Bell Air Seal Fits Post Repair</td> <td></td> <td></td> <td></td>   | 100. | End Bell Air Seal Fits Post Repair  |                                |           |      |
| 101. DE Sleeve Bearing Inside ID Post RepairMeasure 1Measure 2Measure 3000102. DE Sleeve Bearing Outside ID Post RepairMeasure 2Measure 3Measure 1Measure 2Measure 3000103. DE Sleeve Bearing Inside OD Post RepairMeasure 2Measure 3104. DE Sleeve Bearing Inside OD Post RepairMeasure 3105. DE Sleeve Bearing Inside OD Post RepairMeasure 3106. DE Sleeve Bearing Inside OD Post RepairMeasure 3107. DE Sleeve Bearing Outside OD Post RepairMeasure 3108. DE Sleeve Bearing Outside OD Post RepairMeasure 3109. DE Sleeve Bearing Outside OD Post RepairMeasure 3  |      | Drive End Air Seal                  | Opposite Drive End Air Seal    |           |      |
| Measure 1Measure 2Measure 3000102.DE Sleeve Bearing Outside ID Post RearrerMeasure 2Measure 30000103.DE Sleeve Bearing Inside OD Post RearrerMeasure 2Measure 3104.Measure 1Measure 2Measure 3105.000106.00107.DE Sleeve Bearing Outside OD Post RearrerMeasure 2108.000  |      | ok                                  | ok                             |           |      |
| 00102.DE Sleeve Bearing Outside ID Post RearrerMeasure 1Measure 2Measure 1Measure 200103.DE Sleeve Bearing Inside OD Post RearrerMeasure 1Measure 2Measure 1Measure 20000   | 101. | DE Sleeve Bearing Inside ID Post Re | epair                          |           |      |
| 102. DE Sleeve Bearing Outside ID Post Repair     Measure 1   Measure 2   Measure 3     0   0   0     103. DE Sleeve Bearing Inside OD Post Repair   Measure 2   Measure 3     Measure 1   Measure 2   Measure 3     0   0   0     104. DE Sleeve Bearing Outside OD Post Repair   0  |      | Measure 1                           | Measure 2                      | Measure 3 |      |
| Measure 1Measure 2Measure 3000103.DE Sleeve Bearing Inside OD Post RepairMeasure 2Measure 30000104.DE Sleeve Bearing Outside OD Post Repair0  |      | 0                                   | 0                              | 0         |      |
| 00103.DE Sleeve Bearing Inside OD Post RepairMeasure 1Measure 20000104.DE Sleeve Bearing Outside OD Post Repair   | 102. | DE Sleeve Bearing Outside ID Post   | Repair                         |           |      |
| 103. DE Sleeve Bearing Inside OD Post Repair     Measure 1   Measure 2     0   0     0   0     104. DE Sleeve Bearing Outside OD Post Repair  |      | Measure 1                           | Measure 2                      | Measure 3 |      |
| Measure 1 Measure 2 Measure 3   0 0 0   104. DE Sleeve Bearing Outside OD Post Repair   |      | 0                                   | 0                              | 0         |      |
| 00104.DE Sleeve Bearing Outside OD Post Repair  | 103. | DE Sleeve Bearing Inside OD Post F  | Repair                         |           |      |
| 104. DE Sleeve Bearing Outside OD Post Repair   |      | Measure 1                           | Measure 2                      | Measure 3 |      |
|   |      | 0                                   | 0                              | 0         |      |
| Measure 1 Measure 2 Measure 3   | 104. | DE Sleeve Bearing Outside OD Post   | Repair                         |           |      |
| incacaro E incacaro c   |      | Measure 1                           | Measure 2                      | Measure 3 |      |
| 0 0 0   |      | 0                                   | 0                              | 0         |      |
| 105. End Bell Repair Sign-off Ga  | 105  | End Bell Repair Sign-off            |                                |           | Gary |

| 106. ODE Sleeve Bearing Insid             | 6. ODE Sleeve Bearing Inside ID Post Repair |           |  |  |
|---|---|-----------|--|--|
| Measure 1                                 | Measure 2                                   | Measure 3 |  |  |
| 0   | 0   | 0         |  |  |
|   |   |           |  |  |
| 107. ODE Sleeve Bearing Outs              | ide ID Post Repair                          |           |  |  |
| 107. ODE Sleeve Bearing Outs<br>Measure 1 | ide ID Post Repair<br>Measure 2             | Measure 3 |  |  |

| 108. ODE Sleeve Bearing Inside OD Post Repair |                            |              |  |  |
|---|----------------------------|--------------|--|--|
| Measure 1                                     | Measure 2                  | Measure 3    |  |  |
| 0   | 0                          | 0            |  |  |
| 109. ODE Sleeve Bearing Outs                  | ide OD Post Repair         |              |  |  |
| Measure 1                                     | Measure 2                  | Measure 3    |  |  |
| 0   | 0                          | 0            |  |  |
| Assembly                                      |                            |              |  |  |
| 110. QC Check All Parts for Cle               | anliness Prior to Assembly | David Maclin |  |  |
|   |                            |              |  |  |

111. Photograph All Major Components prior to assembly







| 112. | Final Insulation Resistance Test | 2000 Megohms |
|------|----------------------------------|--------------|
| 113. | Assembled Shaft Endplay          | 0 inches     |
| 114. | Assembled Shaft Runout           | 0 inches     |





| 115. Tes | t Run Voltage        |       |       |
|----------|----------------------|-------|-------|
| Vol      | ts                   | Volts | Volts |
| 459      | )                    | 456   | 460   |
| 🗭 Rob    | pert Wiley witnessed |       |       |



| 116. | Test Run Amperage                     |                          |            |
|------|---------------------------------------|--------------------------|------------|
|      | Amps                                  | Amps                     | Amps       |
|      | 74.9000000000001                      | 79.8                     | 82.7       |
| 117. | Drive End Vibration Readings - Inches | Per Second               |            |
|      | Horizontal                            | Vertical                 | Axial      |
|      | 0.0342                                | 0.0677                   | 0.0462     |
| 118. | Opposite Drive End Vibration Reading  | s - Inches Per Second    |            |
|      | Horizontal                            | Vertical                 | Axial      |
|      | 0.068                                 | 0.0575                   | 0.0147     |
| 119. | Ambient Temperature - Fahrenheit      |                          | 0          |
| 120. | Drive End Bearing Temps - Fahrenhei   | t                        |            |
|      | 5 Minutes                             | 10 Minutes               | 15 Minutes |
|      | 0                                     | 0                        | 0          |
| 121. | Drive End Bearing Temps - Fahrenhei   | t 20-30 Minutes          |            |
|      | 20 Minutes                            | 25 Minutes               | 30 Minutes |
|      | 0                                     | 0                        | 0          |
| 122. | Drive End Bearing Temps - Fahrenhei   | t 35-45 Minutes          |            |
|      | 35 Minutes                            | 40 Minutes               | 45 Minutes |
|      | 0                                     | 0                        | 0          |
| 123. | Drive End Bearing Temps - Fahrenhei   | t 50-60 Minutes          |            |
|      | 50 Minutes                            | 55 Minutes               | 60 Minutes |
|      | 0                                     | 0                        | 0          |
| 124. | Opposite Drive End Bearing Temps - I  | Fahrenheit               |            |
|      | 5 Minutes                             | 10 Minutes               | 15 Minutes |
|      | 0                                     | 0                        | 0          |
| 125. | Opposite Drive End Bearing Temps - I  | Fahrenheit 20-30 Minutes |            |
|      | 20 Minutes                            | 25 Minutes               | 30 Minutes |
|      | 0                                     | 0                        | 0          |

| 126. | Opposite Drive End Bearing Temps -    | Fahrenheit 35-45 Minutes |            |
|------|---------------------------------------|--------------------------|------------|
|      | 35 Minutes                            | 40 Minutes               | 45 Minutes |
|      | 0                                     | 0                        | 0          |
| 127. | Opposite Drive End Bearing Temps -    | Fahrenheit 50-60 Minutes |            |
|      | 50 Minutes                            | 55 Minutes               | 60 Minutes |
|      | 0                                     | 0                        | 0          |
| 128. | Stator Temperatures- Fahrenheit       |                          |            |
|      | 5 Minutes                             | 10 Minutes               | 15 Minutes |
|      | 0                                     | 0                        | 0          |
| 129. | Stator Temperatures- Fahrenheit 20-3  | 30 Minutes               |            |
|      | 20 Minutes                            | 25 Minutes               | 30 Minutes |
|      | 0                                     | 0                        | 0          |
| 130. | Stator Temperatures- Fahrenheit 35-4  | 5 Minutes                |            |
|      | 35 Minutes                            | 40 Minutes               | 45 Minutes |
|      | 0                                     | 0                        | 0          |
| 131. | Stator Temperatures- Fahrenheit 50-6  | 60 Minutes               |            |
|      | 50 Minutes                            | 55 Minutes               | 60 Minutes |
|      | 0                                     | 0                        | 0          |
| 400  | Desument Final Condition with Distury | a often naint            |            |

132. Document Final Condition with Pictures after paint









133. Final Pics and QC Review

**David Maclin** 





**Hi-Speed Industrial Service** 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

## **AC Random Coil Rewind Report**

Performed By: Motor Shop LR 2

FolderID: 101889 FormID: 18148650

| Delta Plastics (11016) |
|------------------------|
| 8801 Frazier Pike      |
| Little Rock, AR 72206  |

#### Priorities Found: **2 - High** 🔵 5 - Good

| General        |                |  |
|----------------|----------------|--|
| 1. Job Number  | 101889         |  |
| 2. Report Date | 10/13/2023     |  |
| 3. Customer    | Delta Plastics |  |



**Stator Winding** 

4. Core Length







| 5. | Core ID                  | 9.875 "  |
|----|--------------------------|----------|
| 6. | Back Iron Depth          | 1.25 "   |
| 7. | Slot Depth               | 1.375 "  |
| 8. | Tooth Width              | 0.257 "  |
| 9. | Number of Vents          | 0        |
| 10 | Vent Width               | 0 "      |
| 11 | Before Burnout Core loss | (P) Pass |
| 12 | Flux Before Burnout      |          |

Hi-Speed Industrial Service disclaims all warranties, both express and implied, relating to the information, reports, opinions and analysis disclosed to the Customer by Hi-Speed. Hi-Speed shall not be liable for any errors or omissions, or any losses, injury or damages arising from the use of such information, reports, opinions and analysis by the Customer.

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|   | 13        | Watts before burnout              | Watts               |
|---|-----------|-----------------------------------|---------------------|
|   | -0.       | Na                                |                     |
|   | 14.       | Watts loss per lb. before burnout | W/lbs.              |
|   | -         | Na                                |                     |
|   | 15.       | After Burnout Core Loss           | (NA) Not Applicable |
|   | 16.       | Flux After burnout                |                     |
|   | •         | Na                                |                     |
|   | 17.       | Watts After Burnout               | 0 Watts             |
|   | 18.       | Watts loss per lb After Burnout   | 0 W/lbs.            |
|   |           | Core Iron Condition               | (P) Pass            |
|   |           | RTD's                             | (N) No              |
|   |           | RTD's Reading                     | Ohm's               |
|   | -         | No RTDS                           |                     |
|   | 22.       | Motor Heaters                     | (NA) Not Applicable |
|   | 23.       | Heater Qty.<br>No Heaters         |                     |
|   | ,         | Heater Voltage                    | 0 Volts             |
|   |           | Heater Wattage                    | 0 Watts             |
|   | 26.       | Thermistors                       | (N) No              |
| - | 27.       | Number of Poles                   | 4                   |
|   |           | Slots                             | 60                  |
|   | 29.       | Number of Coils                   | 60                  |
|   | 30.       | Coil Weight                       | 108 Lbs.            |
|   | 31.       | Lead Markings                     |                     |
|   |           | 1-1-2-2-3-3                       |                     |
|   | 32.       | Grouping                          |                     |
|   |           | 12of5                             |                     |
|   | 33.       | Multiple Wires                    |                     |
|   | -         | 6                                 |                     |
|   | 34.       | Wire Size                         |                     |
|   |           | 1#165#17                          |                     |
|   |           | Turns per coil                    | 10                  |
|   | -         | Good                              | 40                  |
|   | 36.<br>27 | Pitch 1 to:<br>Connection         | 13                  |
|   | 57.       | 2d2d                              |                     |
|   | 38        | Lead Length                       | п                   |
|   |           | 16                                |                     |
|   | 39.       | Lead Size                         | 1                   |
|   |           | Number of Leads                   | 6                   |
|   | 41.       | Megger Reading After Rewind       | Mohms               |
|   | -         | Good                              |                     |
|   | 42.       | Coil Machine Slot                 | 0                   |
|   | 43.       | Coil Machine Tip                  |                     |
|   | -         | 0                                 |                     |
|   | 44.       | Coil Machine Pitch                | 0                   |
|   | 45.       | Hi Pot Reading After Rewind       | Ua                  |





### STANDARD TERMS AND CONDITIONS FOR PURCHASE OF GOOD AND/OR SERVICES

- 1. <u>APPLICABILITY.</u> The sale of any and all goods and/or services by Mock, Inc. d/b/a Hi-Speed Industrial Service ("Hi-Speed") shall be specifically conditioned upon and subject to the following terms and conditions which are incorporated by reference into any contracts and purchase orders with Hi-Speed, and which shall form and become a part of any agreement related thereto. Buyer's acceptance of any offer or quotation made by Hi-Speed for sale of any goods or services is expressly made subject to the terms and conditions set forth herein and to be so effective, Buyer need not sign or approve these Terms and Conditions to be bound hereunder provided a copy of same is provided to Buyer through any means. None of the terms and conditions contained herein may be added to, expanded, changed, modified, superseded or otherwise altered except as revised in writing and duly executed by Hi-Speed, and all orders received by Hi-Speed shall be governed only by the terms and conditions contained herein, notwithstanding any terms, conditions or provisions of any purchase order, release order, authorization or any other form issued by the Buyer. Hi-Speed hereby objects to any additional, modified, changed, deleted, altered or other terms and conditions not contained herein and notifies Buyer that any such terms or provisions are expressly rejected by Hi-Speed.
- 2. PRICE. All quoted prices shall remain firm and binding for a period of thirty (30) days from the date of quotation or for the period specifically stated in the quotation. The price for any and all goods and/or services ordered or approved by Buyer after thirty (30) days from the date of any quotation are subject to any increase in price that may occur after the expiration of thirty (30) days from the issuance of the quotation and the date the Buyer releases any shipment.
- 3. <u>SCOPE OF GOODS AND/OR SERVICES.</u> The goods and/or services provided by Hi-Speed pursuant to any quotation shall be limited exclusively to those goods and/or services expressly identified therein. Hi-Speed does not assume any responsibility and/or liability for the failure to provide any other goods and/or services not identified in any quotation. Modifications, additions or deletions to or from the scope referenced in any quotation shall only be effective if evidenced in writing and signed by Hi-Speed. The sale of any of all goods and/or services affected by such modification, addition or deletion shall be subject to these same Standard Terms and Conditions whether or not referenced therein.
- 4. <u>BILLING AND PAYMENT TERMS.</u> Hi-Speed shall invoice Buyer for all goods and/or services as same are rendered at the address listed on the quotation. Payments for all goods and/or services shall be due thirty (30) days from the date of the current invoice or as otherwise set forth in the quotation. Late payments are subject to a late fee of 5% of the total invoice amount. Recurring late payments may lead to a deposit requirement on future services or sale of goods. Buyer shall be liable to Hi-Speed for any and all fees and expenses incurred by Hi-Speed to collect any invoices or to enforce these Standard Terms and Conditions, including but not limited to, attorney's fees.
- 5. DELIVERY OF GOODS AND/OR SERVICES. Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
- 6. DELIVERY SITE AND TIME FOR PERFORMANCE. Hi-Speed and Buver agree that time is of the essence for the purchase order and that Buyer shall fully cooperate with Hi-Speed in order to allow Hi-Speed full access to prosecute its work diligently and in an orderly manner. Buyer shall assist Hi-Speed in every way possible to avoid delaying, disrupting or interfering with the progress of Hi-Speed's work at the project site. In the event Hi-Speed's work is delayed, hindered, suspended, disrupted, re-sequenced or interfered with or rendered less efficient or more costly or adversely affected in any way as a result of acts or omissions of Buyer or other contractors or employees of Buyer or by any other reason beyond Hi-Speed's control and without the fault of Hi-Speed, then, in such event, Buyer shall be liable to Hi-Speed for any damages, additional costs, expenses, labor, materials, man hours, acceleration costs, overtime, additional jobsite overhead, extended home office overhead, and any and all other direct and indirect expenses of whatsoever nature or kind, caused in whole or in part, as a result of any of the above-referenced occurrences. Hi-Speed's project records will be the basis for computing the additional costs and damages of Hi-Speed's labor, materials, expenses and overhead related to such changes. BUYER WARRANTS THAT THE SITE FOR DELIVERY OR INSTALLATION OF ANY GOODS AND/OR FOR THE PERFORMANCE OF ANY SERVICES SHALL BE READY AND ADEQUATE FOR HI-SPEED'S DELIVERY OF GOODS AND/OR PERFORMANCE OF SERVICES AND THAT HI-SPEED SHALL HAVE FULL ACCESS THERETO, FREE OF ALL OBSTRUCTIONS. BUYER SHALL ASSUME ALL EXTRA COSTS ASSOCIATED WITH HI-SPEED'S INABILITY TO INSTALL ANY GOODS OR PERFORM ANY SERVICES AS A RESULT OF BUYER'S FAILURE TO COMPLY WITH THIS PROVISION. HI-SPEED MAY NOT INSPECT THE SITE PRIOR TO DELIVERY AND/OR INSTALLATION OF GOODS AND/OR PERFORMANCE OF SERVICES AND MAKES NO WARRANTY AS TO THE SUFFICIENCY OF THE SITE FOR THE DELIVERY AND/OR INSTALLATION OF GOODS AND/OR THE PERFORMANCE OF SERVICES AT SUCH SITE.
- 7. INSPECTION/ACCEPTANCE. All goods and services ordered pursuant to any quotation shall be subject to inspection by Buyer after delivery or performance to determine conformity with the quotation and/or purchase order and Hi-Speed's advertised or published specifications. Buyer shall have a period of thirty (30) days from shipment of goods at the delivery destination specified in the quotation within which to inspect the goods for conformity with the quotation, order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. Buyer shall have a period of thirty (30) days following completion of any services within which to inspect the services for conformity with the quotation, purchase order and/or Hi-Speed's advertised and published specifications and to provide Hi-Speed with written notice of any discrepancy or rejection. If the goods delivered or services performed do not so conform, upon delivery of notice to Hi-Speed of any discrepancy, nonconformance or rejection, Hi-Speed shall have the right to reject such goods or services. After the cure period, goods that have been delivered and rejected, in whole or in part, shall be returned to Hi-Speed shall, at its sole cost, re-perform the non-conforming services. Inspection or failure to inspect on any occasion shall not affect Buyer's rights under the warranty provisions herein.
- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

**TermsAndConditions** 

replace any defective or non-conforming goods in accordance with the applicable manufacturer's warranty. Warranty for any defective or incorrect parts is limited to the repair or replacement of those parts. Hi-Speed warrants that all services will conform in all material respects to the description of services identified in the quotation and will be performed in a good and workmanlike manner in accordance with industry practices and standards. Should the services be reasonably rejected or not conform with the foregoing warranties, Hi-Speed shall, at its sole cost, re-perform the defective or nonconforming services. Notwithstanding the foregoing, these warranties do not extend to goods or services to the extent that such goods have been subject to misuse, neglect or abuse not caused by Hi-Speed or have been used in violation of the approved written instructions furnished to Buyer. THE FOREGOING REPRESENTS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY HI-SPEED WITH RESPECT TO ALL GOODS SOLD AND IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED. HI-SPEED EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICLAR USE OR PURPOSE. BUYER WAIVES ANY CLAIM THAT THESE EXCLUSIONS OR LIMITATIONS DEPRIVE IT OF AN ADEQUATE REMEDY AT EQUITY OR LAW OR CAUSE THIS AGREEMENT TO FAIL IN ITS ESSENTIAL PURPOSE. BUYER SHALL BE ENTITLED TO NO OTHER REMEDY OTHER THAN AS SET FORTH HEREIN, REGARDLESS OF THE CLAIM OR CAUSE OF ACTION, WHETHER BASED IN CONTRACT, TORT, NEGLIGENCE, GOODS LIABILITY, STRICT LIABILITY OR OTHERWISE.

- 9. LIMITATION OF DAMAGES. HI-SPEED SHALL HAVE NO LIABILITY TO BUYER WITH RESPECT TO THE SALE OR DELIVERY OF ANY GOODS OR THE REPAIR THEREOF OR WITH RESPECT TO THE SALE OR PERFORMANCE OF ANY SERVICES, FOR LOST PROFITS, SPECIAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INCIDENTAL DAMAGES OF ANY KIND OR NATURE WHETHER ARISING IN CONTRACT, TORT, GOODS LIABILITY OR OTHERWISE, EVEN IF HI-SPEED WAS ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES. HI-SPEED SHALL NOT BE LIABLE FOR ANY DAMAGES OR DELAYS CAUSED BY ANY FAILURE TO MAKE ANY DELIVERY OF GOODS BY ANY EXPECTED TIME OR DATE OR THE FAILURE TO PROVIDE OR COMPLETE ANY SERVICES BY ANY EXPECTED DATE OR TIME. IN NO EVENT SHALL HI-SPEED BE LIABLE TO BUYER FOR ANY DAMAGES WHATSOEVER IN EXCESS OF THE TOTAL PRICE PAID FOR ALL GOODS AND/OR SERVICES HEREUNDER OR REFERENCED IN ANY QUOTATION OR THE PURCHASE ORDER.
- 10. <u>SEVERABILITY</u>. The partial or complete invalidity of any provision of these Standard Terms and Conditions shall not affect the enforceability of the remainder of these Standard Terms and Conditions. If any provision is found to be invalid or unenforceable, that portion shall be modified to make it enforceable or shall be stricken and the remainder of these Standard Terms and Conditions shall enforced.
- 11. <u>GOVERNING LAW AND JURISDICTION.</u> Any controversy arising out of any quotation, the purchase order, the goods sold or delivered, repair or replacement thereof, or any services provided pursuant to any quotation or any purchase order, or these Standard Terms and Conditions shall be governed by the laws of the state of Tennessee without regard to any choice of law provisions and any cause of action related in any manner thereto shall be brought only in the state or federal courts of Shelby County, Tennessee.
- 12. <u>ABANDONED EQUIPMENT.</u> Hi-Speed requires that Buyer promptly pick up or provide shipment instructions for Buyer equipment or other Buyer property in Hi-Speed's possession. If equipment or other Buyer property is left with Hi-Speed and not picked up within six (6) months after Hi-Speed's final action related to the applicable property (e.g. evaluation, teardown, estimate, completion of services), Hi-Speed will consider such property abandoned and may dispose of it in accordance with applicable law. Buyer agrees to hold Hi-Speed harmless for any damage or claim for such abandoned property and acknowledges that Hi-Speed may discard or recycle it at Hi-Speed's sole and absolute discretion. Specifically, Hi-Speed may sell Buyer's abandoned property at a private or public sale and retain the proceeds to offset Hi-Speed's storage, inspection and servicing costs. For the avoidance of doubt, Hi-Speed reserves its statutory and other lawful liens for unpaid charges related to abandoned property.
- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
- 14. <u>NONWAIVER</u>. No course of dealing or failure of either party to strictly enforce any term, right, or condition of these Standard Terms and Conditions will be construed as a waiver of such term, right or condition. Any waiver by Hi-Speed will only be in writing and will waive no succeeding breach of a term, right or condition.
- 15. <u>ASSIGNMENT.</u> The rights and obligations of the parties shall neither be assigned nor delegated without the prior written consent of the other party. However, any party may assign or delegate its respective rights and obligations, in whole or in part, (i) to any subsidiary, (ii) pursuant to other financing, merger or reorganization or (iii) pursuant to any sale or transfer of substantially all of the assets of the assigning party. These Standard Terms and Conditions shall bind the heirs, successors and assigns of the parties hereto.
- 16. <u>NO INDIVIDUAL LIABILITY</u>. Notwithstanding any other agreement to the contrary, the Buyer agrees that in no event will the Buyer hold and HI-Speed owner, director, officer or employee personally liable for unintentional tortious conduct or conduct that constitutes the breach of any contract between HI-Speed and the Buyer, even if the HI-Speed owner, director, officer or employee is or could be construed to be a party to such contract.