



MagDrive Evaluation Report

Customer Details

Customer	James Grover
Complaint / RMA number	OD2202799
Inspection Date and Time	Thursday, May 23, 2024 11:32
One Motion Part Number	OD69-15-81-305-13857
One Motion Serial Number	OD2202799

Inspection

The following report is intended to find a root cause of failure only. Warranty Determination is a separate process. This Inspection report is completed in an unbiased manner with the intent of just gathering information.

Complaint details

Please inspect three motors that were sent out for blue v lag belting.

Visual Inspection

Good

Describe visual appearance

New with j-box and v lag belt added.

Visual Inspection Images





Electrical Inspection

Review Continuity	Balanced
Ohms reading	12.5
Ohms reading	12.5
Ohms reading	12.5
Megger Testing	Pass
Megger Reading Results	4000M
Operational Test (using One Motion parameters)	Runs as intended
Did Customer provide parameters	Yes
Did Customer provided parameters function	As inteded
Amp Draw @ 15Hz	.37
Amp Draw @ 30Hz	.21

Amp Draw @ 45Hz .17

Amp Draw @ 60Hz .17

Running Observations

In order to reverse @30Hz I had to drop P586 to 6%

Video of Operation



OD2202799vid.mov

Thermal Testing

Place electrical tape in a central position over the core of the motor - electrical tape is used to prevent reflection in measurement. This also ensures measurement in the same location. Testing is performed running the mag drive unit for 30 minutes at 30Hz

Thermal Testing - Baseline or starting temperature 74.5 degrees F

Thermal Testing - 30 minute run temperature 82.2

Thermal Testing - maximum run temperature 93.9

Destructive Analysis

If mag drive unit does not function - It is the policy of Actionpaq and One Motion to open the magdrive up in an attempt to determine a root cause analysis.

Is there evidence of water intrusion No

Is there evidence of mechanical failure No

Is there evidence of other manufacturing defect No

Describe any findings upon internal inspection

N/A

Based on the information gathered was a root cause of failure determined?

Runs as intended.

Inspector Name Tyler Roddey