



# METALLURGICAL TECHNOLOGIES, Inc.

*A Rimkus Company*

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Forensic Failure Analysis, Materials Engineering, Consulting & Testing

## Report Number 2021104 January 21, 2021

Mr. Scott Stilwell  
**EZ Claw, Inc.**  
131 Crosslake Park Drive  
Mooresville, NC 28117

### Re: Salt Spray Testing of a EZ Claw Cable Retention Assembly

Dear Mr. Stilwell:

A complete EZ Claw hose and cable retention assembly was subjected to salt spray testing for a total duration of 120 hours. Salt spray testing was performed in general accordance with ASTM F1941 and B117 to determine the effectiveness of the corrosion resistance materials and coatings. The assembly was visually examined every 24 hours during the test period.

At the conclusion of the 120-hour test, the assembly was gently rinsed with deionized water to remove any remaining salt deposits. The assembly had no indication of red rust corrosion. As expected, a significant amount of white zinc oxide deposits were visible across the majority of the exposed fasteners.

Photo documentation of the assembly, taken prior to and after testing, are provided in Figures 1 through 3.

Prepared By:

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Figure 1: Photograph of the EZ Claw assembly prior to salt spray testing. The assembly was subjected to 120 hours of salt spray testing. (Photo 21104-N11)



Figure 2: Photograph of the EZ Claw assembly after the completion of 120 hours of salt spray testing. No indication of red rust was visible. A closer view photograph of the retraction assembly is shown in Figure 3. (Photo 2021104-N26)



Figure 3: Closer view photograph of the EZ Claw retraction assembly after the completion of 120 hours of salt spray testing. No indication of red rust was visible. The white deposits (red arrows) around the fasteners are zinc oxide and are expected in zinc plated components. Additionally, an expected green copper oxide deposit (yellow arrow) was observed on the copper wire crimp. (Photo 2021104-N27)