Springdale Development Laboratory

Date: December 13, 2012

Customer: ---

Item: #7X58mm, Trim Head with Star Recess

Product: POWERCRON®460-443A

Substrate: 10-15 µ Zinc

Date Processed: September 14, 2012

Test Description: Nordtest C4 – 13 cycles

Conclusion: The submitted coated fasteners were tested to 13 cycles and the chart below details the results.

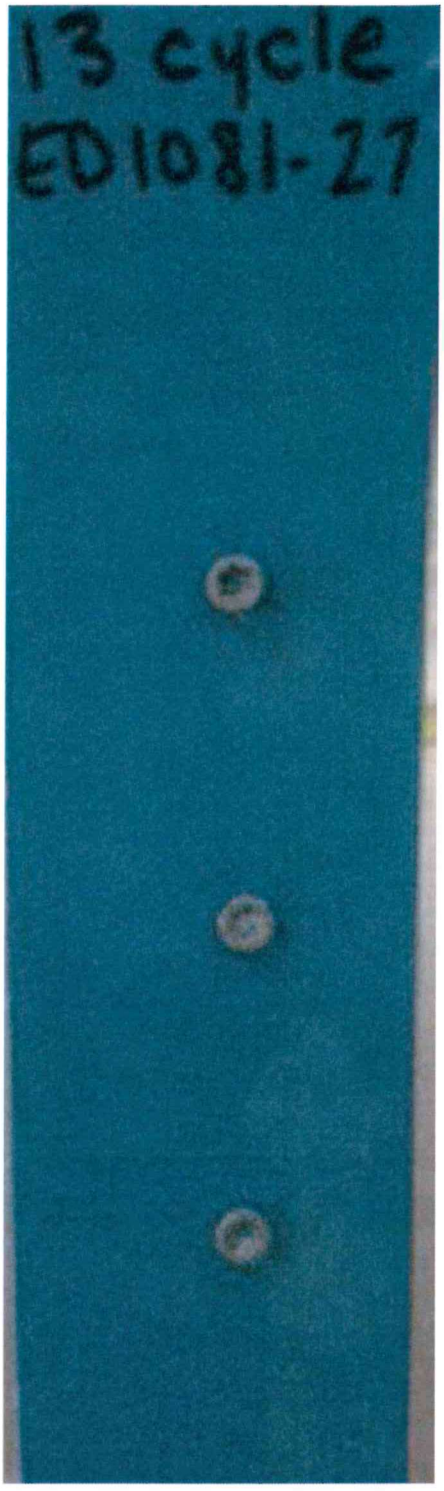
There was no red corrosion noted on any of the parts and the worst result shows only 1% white corrosion.

Notebook code	3 cycle VDA	6 cycle VDA	9 cycle VDA	13 cycle VDA
ED1081-27 (submitted #7X58mm fastener 10-15µ zinc + gray ecoat)	2 no corrosion; 1<0.1% white corrosion	1<0.1%; 1<0.3%; 1<1% white corrosion	1<0.1%; 1<0.3%; 1<1% white corrosion	1<0.1%; 1<0.3%; 1<1% white corrosion

This concludes LWR E-12-140.

Nanette Wiles

cc: J. Zbiegien
J. W. Martin
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13 cycle
ED1081-27