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Comparing Zerust Valeno VCI Film to VpCI-126

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Background: Mike Gabor submitted a blue Zerust Valeno VCI bag, and requested that the corrosion protection be tested and compared to VpCI-126.

Sample Received:

1) Zerust Valeno VCI blue film, ok condition, received 10-27-11

Method:

- 1) VIA Test CC-027
- 2) Razor Blade Test CC-004
- 3) FTIR Test CC-006

Materials:

- 1) VIA Test Kit
- 2) Razor blade test kit
- 3) Paragon 1000 FTIR
- 4) VpCI-126 Lot# 30688

Procedure: The tests were conducted according to standard procedures for each test.

Results:

Razor Blade Test-Carbon Steel Panels

Sample	Panel 1	Panel 2	Panel 3	
Zerust Valeno VCI Film	Fail	Fail	Fail	
VpCI-126 Film	Pass	Pass	Pass	
Control	Fail	-	-	

Razor Blade Test -Copper Panels

Sample	Panel 1	Panel 2	Panel 3
Zerust Valeno VCI Film	Fail	Fail	Fail
VpCI-126 Film	Pass	Pass	Pass
Control	Fail	-	-

VIA Test Results

Sample	Plug #1	Plug #2	Plug #3
Zerust Valeno VCI Film	Grade 0	Grade 0	Grade 0
VpCI-126 Film	Grade 3	Grade 3	Grade 2
Control	Grade 0	-	-

Note: The VIA grading system is attached to the end of the report.

Interpretations:

- 1. Based on the test results, the blue Zerust Valeno VCI film did not provide vapor or contact-phase corrosion protection. Analysis of the FTIR spectrum determined that there was not a sufficient amount of inhibitor, if any.
- 2. The VpCI-126 film provided sufficient vapor and contact-phase corrosion protection.
- 3. Zerust Valeno VCI film contains an insufficient amount of corrosion inhibitors (see FT-IR graph attached).

VIA Test Grades (Grade 2 or 3 are passing)



