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Evaluating corrosion inhibition of Suprabha's Rustofilm versus VpCI-126

Background: DGP Hinoday needed a film that could inhibit corrosion. They wanted to test which was a better corrosion inhibitor, Cortec's VpCI-126 or Suprabha's Rustofilm.

- **Purpose:** Evaluate corrosion inhibition of Suprabha's Rustofilm versus Cortec's VpCI-126.
- Materials: Carbon Steel Panels VpCI-126 6 mil film, lot # 700210 Suprabha Rustofilm, 6 mil Uncoated Polyethylene film, 6 mil (control film) Perkin Elmer FT-IR 1000 Spectrometer Razor Blade test kit VIA test kit
- Method: Razor Blade test VIA test FT-IR test
- **Procedure:** The above tests were performed according to standard procedures for each.

Results:

Razor Blade Test Performed on Carbon Steel Panels

Film	Panel 1	Panel 2	Panel
Rustofilm	Fail	Fail	5 Fail
VpCI-126	Pass	Pass	Pass
Control	Fail	Fail	Fail





VIA Test

Film	Plug #1	Plug #2	Plug #3
Rustofilm	0	0	0
VpCI-126	3	2	3
Control	0	0	0

FT-IR results are attached at the end of the report.

Conclusion:

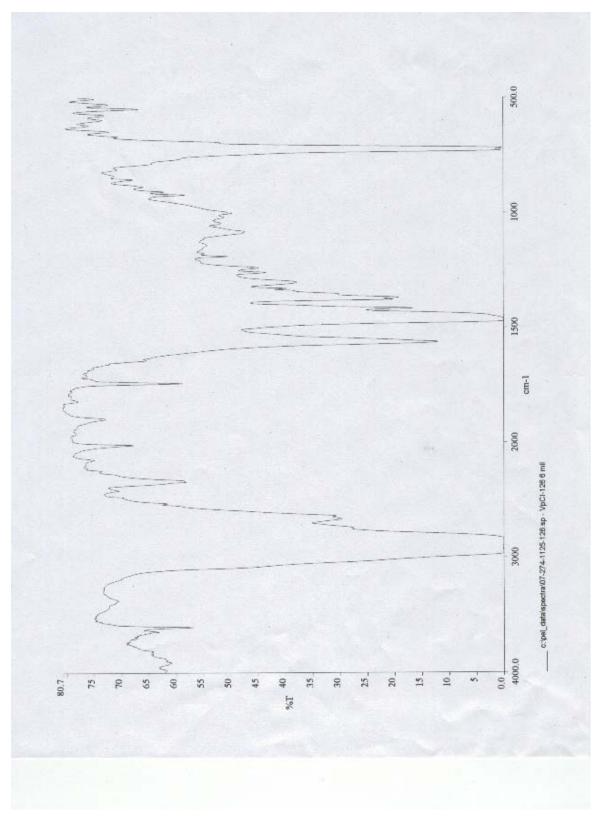
- 1. Rustofilm did not exhibit any anticorrosion properties. It failed the razor blade and VIA tests. The FT-IR results showed an insufficient amount of corrosion inhibitor in the film.
- 2. VpCI-126 inhibited contact corrosion for steel and provided excellent vapor phase corrosion inhibition.

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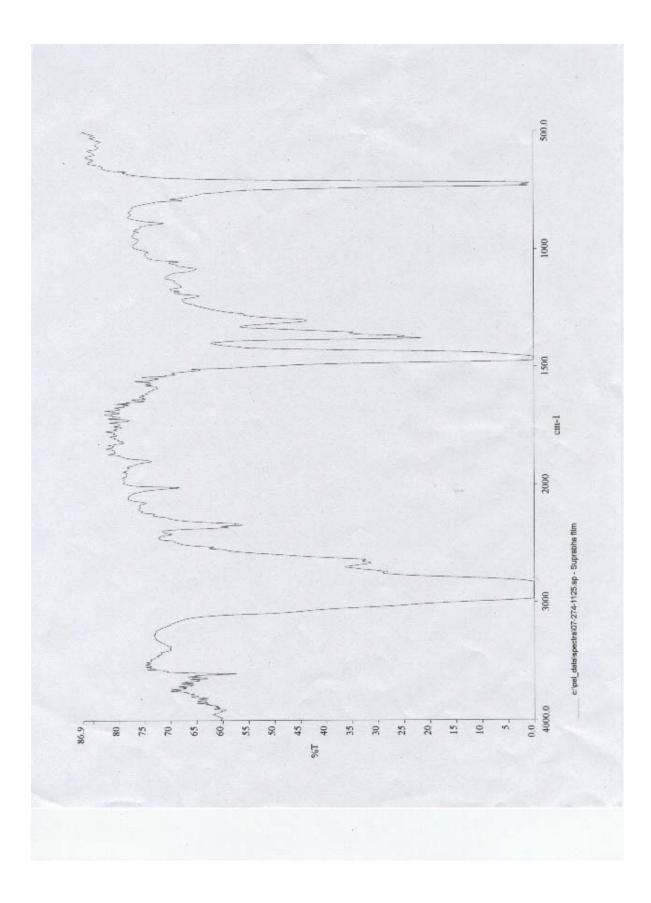
VIA Test Grades (Grade 2 or 3 are passing)

Grade 0
Grade 1
Grade 3

Blind test
No corrosion inhibiting effect
Blind test
Minute corrosion inhibiting effect
Blind test
Medium corrosion inhibiting effect
Blind test
Good corrosion inhibiting effect



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