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Comparison of Nox-Rust X-241 to VpCI-329D 1:9

Background: Customer currently utilizes Nox-Rust X-241 for the protection of ferrous components. The corrosion protection provided by the Nox-Rust oil is insufficient and a replacement is being sought.

Purpose: Compare the corrosion protection of Nox-Rust X-241 with the corrosion protection of Cortec oils in the ASTM-D-1748.

Materials: Nox-Rust X-241
 VpCI-329D
 1010 Carbon Steel Panels

Method: ASTM-D-1748

Procedure: The following procedure was followed:

- 1) 1010 Carbon Steel panels were coated with the following oils:
 - a. Nox-Rust X-241
 - b. VpCI-329D 1:9
- 2) After 24 hours the panels were placed in the ASTM-D-1748 Humidity Cabinet.
- 3) Periodically the panels were inspected and after 520 hours the panels were removed from the humidity cabinet
- 4) The 1010 Carbon Steel panels were inspected, photographed, and a report was written.

Results: The following results were found:

Panel	Time to Failure (hours)
VpCI-329D 1:9	480
Nox-Rust X-241	288

Conclusion: VpCI-329D provided one and half times the corrosion protection to the 1010 carbon steel panels when compared to the Nox-Rust X-241 in the ASTM-D-1748 Humidity Cabinet.

Project #: 04-147(bis)

Estimated Cost of Project: 8.0 hours



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