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Comparing VpCI-322 to Nox Rust VCI-10

Purpose: To compare the corrosion protection of VpCI-322 to Nox Rust VCI-10.

Method: ASTM D-1748 Humidity Cabinet (120°F, ~95% relative humidity)

Materials: Nox Rust VCI-10, provided by Customer
 VpCI-322
 1010 cold rolled carbon steel panels

Procedure: The following procedure was used:

- 1) Three carbon steel panels were cleaned with methanol prior to testing.
- 2) After cleaning, two panels were dipped in the following rust preventives:
 - a. Nox Rust VCI-10
 - b. VpCI-322
 - i. The third panel was used as a control.
- 3) After dipping, the panels were hung overnight to dry.
- 4) Next, all three panels were hung in ASTM D-1748 humidity cabinet.
- 5) All panels were visually inspected periodically.
- 6) After 504 hours, all panels were removed from ASTM D-1748 humidity cabinet.
- 7) All panels were visually inspected and photographed.

Results: The following results were found:

Rust Preventive	Time to Failure (Hours)
None (Control)	<24
Nox Rust VCI-10	288
VpCI-322	DNF*

Conclusion: VpCI-322 provided superior corrosion protection to Nox Rust VCI-10. In 504 hours, the panel treated with VpCI-322 had not corroded, while the panel treated with Nox Rust VCI-10 corroded in 288 hours. These results indicate that there is little to no corrosion inhibitor in the Nox Rust product.

In addition to contact corrosion protection, VpCI-322 works effectively as a rust preventive in void spaces such as pump housings and gear boxes.

Project #: 10-103-1825(bis)

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Date: June 3, 2010

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