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Evaluating Corrosion Inhibitors for Oil Filter Covers

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Project #: 11-116-1825(bis)

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Date: June 24, 2011



Background: Customer sent four oil filters to Cortec for accelerated corrosion testing.

Sample Received: Four oil filter covers

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

Materials: Four oil filter covers
Methanol
BioCorr

Procedure: The following procedure was used:

- 1) Filter covers arrived already coated with Rust Veto product.
 - a. Two covers were tested as received.
 - b. Two covers were cleaned with methanol prior to further testing.
- 2) After cleaning, two covers were dipped in BioCorr and allowed to air dry.
- 3) All four covers were then placed in ASTM D-1748 humidity cabinet.
- 4) All covers were visually inspected periodically.
- 5) After 500 hours, all covers were removed from ASTM D-1748 humidity cabinet.
- 6) Covers were visually inspected and photographed.

Results: The following results were found:

| Rust Preventive | Time to Corrosion (Hours) |
|------------------------|----------------------------------|
| Rust Veto | 120 |
| BioCorr | 456 |

Photos:



Interpretations: BioCorr provided superior corrosion protection to the Rust Veto product currently used by customer. The specific Rust Veto product used by customer was not known to Cortec prior to testing.