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## *Humidity Test to compare products*

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**Project #:** 18-184-1825.bis

**Results reported by:**



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**Approved by:**



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**Background:**

The customer would like to move away from their current solvent based Rust protection International Anti-Rust 77K. This is sprayed on to Crankshafts in an enclosed specialized spray container for shipping to Cat and Cummins. The goal of the test is to see if BioCorr will achieve same, if not better protection than current International Anti-Rust 77K.

**Sample Received:**

9/16/2018

Good condition.

**Method:**

Humidity Testing, CC-018 (based on ASTM D1748)

**Materials:**

- (A) International Anti-Rust 77K
- (B) BioCorr Lot #016518
- Methanol Lot #071417B
- 240 Sand Paper
- Steel Panels for testing

**Procedure:**

Started preparation and testing 10/08/2018

- Sanded panels with 240 Sand Paper.
- Submerged panels in Methanol for 8 minutes.
- Treated 1 panel with product (A)
- Treated 2<sup>nd</sup> panel with product (B)
- The control panel was not treated.
- All panels were hung and allowed to dry from 8:30AM till 11:15AM.
- Placed in Humidity Cabinet at 11:20AM on 10/08/2018 where temperature was 121F° and an air flow of 30.
- Was asked to remove all panels at 8:30AM on 12/06/2018, at time of removal there was still no visible corrosion on either panel treated with (A) or panel treated with (B)
- Per requester, there was only one panel used for each product and one control.

**Results:**

- The panel treated with product (A) and the panel treated with product (B) still showed no signs of corrosion after 1416hrs, when asked to remove them from the oven.

**Photos:**



**Interpretations:**

The results indicate that the BioCorr performed as well as the International Anti-Rust 77K after 1416hrs.in the Humidity Cabinet.