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## *Comparing Pipe Thread Coatings for Customer*

**Background:** As part of their threaded pipe applications, customer uses 2 different greases to lubricate and protect the threading. They would like these products compared to VpCI-369.

**Purpose:** To evaluate coatings for threaded pipes from customer and compare to VpCI-369.

**Method:** ASTM B-117 Salt Fog

**Materials:** 4 threaded pipe sections  
 VpCI-369  
 Kendex Corrosion Inhibitor  
 Bestoflife (BOL) 2000 Corrosion Inhibitor

**Procedure:** The following procedure was used:

- 1) Two of the threaded pipe sections arrived already coated with the Kendex and BOL products currently used by customer.
  - a. These sections were tested as received.
- 2) The remaining two sections were cleaned with methanol to remove any contaminants that may have been present.
  - a. After cleaning, one of the threaded sections was coated with VpCI-369. The pipe was then screwed into the plastic connector and allowed to sit overnight.
  - b. The final pipe was left untreated, to be tested as a control.
- 3) Next, the pipes were placed in ASTM B-117 salt fog testing.
- 4) Pipes were visually inspected periodically.
- 5) After 600 hours, all pipes were removed from ASTM B-117 salt fog.
- 6) The pipes were unscrewed from connectors, allowing the threaded sections to be visually inspected.

**Results:** The following results were found:

Pipe Treatment	% Corrosion at 600 Hours
None (Control)	30
Kendex	10
BOL 2000	0
VpCI-369	0

**Conclusion:** After 600 hours of salt spray testing, no corrosion was seen on the pipe threads coated with VpCI-369. Similarly, BOL 2000 protected for the 600 hour test period. The only difference in these products was the removability. Whereas VpCI-369 was easily removed, BOL 2000 will require a pressure spray to be removed fully.

Due to the very precise corrosion standards of this project, the pipes were sent back to the customer for further inspection.



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