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Evaluation of AGIP ALISMA 32 PV

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Project #: 12-081-1825(bis)

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Date: April 24, 2012



Background: AGIP ALISMA 32 PV is a lubricant/oil used for turbines.

Purpose: To test the contact and vapor phase corrosion protection properties of AGIP ALISMA 32 PV, and compare the results against VpCI-329.

Method: 1) ASTM D-1748 (humidity testing)
2) MIL-PRF-46002C (vapor phase testing)*
*Cortec Laboratory is not accredited for the test marked

Materials: 1) AGIP ALISMA 32 PV
2) VpCI-329 (batch #06651)
3) Carbon Steel panels, SAE 1010

Procedure: The following procedure was followed for the humidity testing:

- 1) Dip, or coat carbon steel panels with the samples to be tested.
- 2) Hang the panels to drip/dry overnight.
- 3) Place the panels in the humidity cabinet and inspect them for corrosion on a regular basis.
- 4) Record the number of hours for the panels to fail. Failure is determined by observing one spec of corrosion that is 1-3mm in diameter, or three specs of corrosion at least 1mm in diameter.
- 5) After 300 hours, the panels were removed from the humidity cabinet, hung to dry, and then photographed.

The following procedure was followed for MIL-PRF-46002C vapor phase testing:

- 1) Refer to part 4.2.2.2.2 of the MIL spec. for vapor phase testing.
- 2) VpCI-329 and AGIP ALISMA 32 PV are considered to be grade 1 oils.
- 3) Failure is determined by observing at least three specs of corrosion greater than 1mm in diameter.

Results: The following results were found for the humidity testing:

Sample	Time to Failure
AGIP ALISMA 32 PV	<24 hours
VpCI-329	Did not fail*

*tested for 300 hours

The following results were found for MIL-PRF-46002C vapor phase testing:

Sample	Results
AGIP ALISMA 32 PV	Fail
VpCI-329	Pass

Interpretations: AGIP ALISMA 32 PV was found to have very poor contact and vapor phase corrosion protection properties, especially when compared to VpCI-329.

Photos:

Humidity Testing
after 300 hours



AGIP ALISMA 32 PV



VpCI-329