LABORATORY ANALYSIS REPORT

Report Date/Time: 11/7/01 9:16:50 AM

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Herguth Project Number: #600909B
Test Description: Varnish/Sludge Forming Characteristics

Dear Mike:

Please accept this report as our findings on the above project. If you have any questions or comments, please feel free to call.

**Conclusion:** Under the test conditions employed the Motor Silk CLS Bond product inhibited oil degradation deposits from forming on the surfaces of the test specimens.

**Background and Analysis:** It has been hypothesized that the bonding of the boric oxide film developed by the Motor Silk would in turn, protect against deposits adhering to the surface.

In order to evaluate this hypothesis, we subjected a commercially available engine oil to severe heat treatment in an aluminum dish. The same oil with Motor Silk added was also subjected to the same treatment. We used two samples containing Motor Silk. One was allowed to stand (soaked) for a few days while the other was subjected to the heating immediately after mixing.
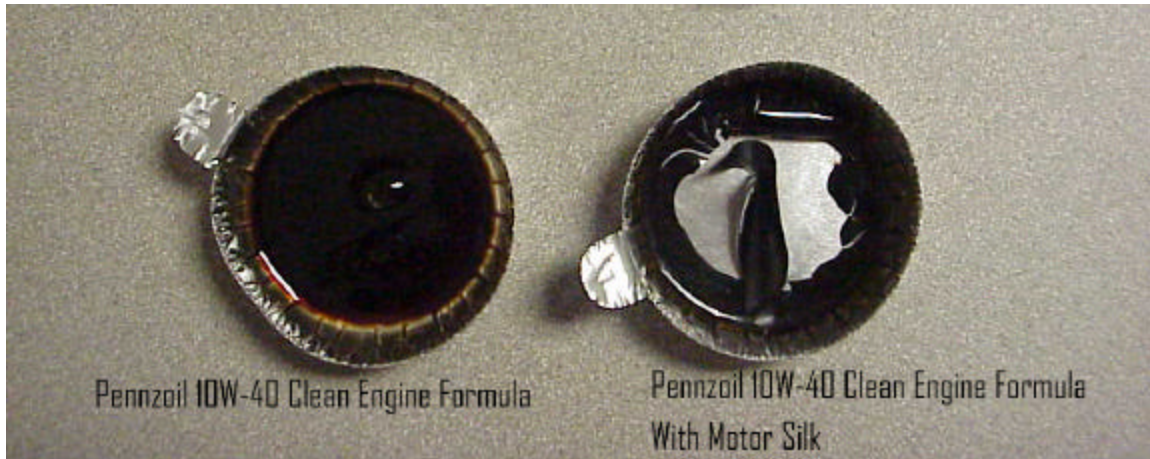
After heating the engine oil alone, it had bonded to the surface of the dish. Its character was a thick, tacky, viscous, varnish like material. The same oil containing Motor Silk was relatively dry and easily flaked off of the surface, leaving no discoloration.

These results support the hypothesis that Motor Silk protects the surface of metal components from deposit formation.

Samples Heated for 2.5 hours @ 650F

The results for the soaked Motor Silk sample were identical to the non-soaked sample.

Once again, if you have any questions or comments, please feel free to call.

Respectfully Submitted,

William R. Herguth, CLS

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