

CASE HISTORY

Toyota Motor's Independent Analysis of Boselin vs. VpCI-126

DATE

Spring 2004

PROJECT

Toyota Motor Manufacturing Independent Analysis of Aicello (Boselin) vs. Cortec (VpCI®-126)

CORTEC REPRESENTATIVE

Mike Gabor

CORTEC PRODUCTS

VpCI®-126 Film
VpCI™-418L



Boselin



Cortec

PROBLEM

This division of Toyota Motor Manufacturing (TMM) has utilized Boselin film bags in conjunction with a Castrol honing oil and VCI paper to ship engine blocks internationally. TMM wanted to find an alternative product that would offer a direct cost reduction of materials and an improved performance to allow elimination of secondary corrosion preventative products.

APPLICATION

TMM chose to evaluate the performance characteristics of Boselin in comparison to the proposed film from Cortec®, VpCI®-126. The evaluation included test shipments and independent laboratory testing.

Test shipments with the Cortec® VpCI®-126 proved successful.

Independent laboratory testing was set up as follows –

- Secondary oiling with Castrol honing oil was eliminated for all test engine blocks.
- Some blocks were treated with Cortec® VpCI™-418L as an alternative to current cleaner in production wash stations.
- All blocks were packaged with Boselin or Cortec® film .
- Some blocks were packaged with VCI paper.
- Testing lasted for 7-10 days in laboratory conditions.
- Test packs were returned from the independent lab and were stored at the Toyota receiving dock for an additional 6 weeks prior to inspection.

CONCLUSION

All engine blocks treated with Cortec® VpCI®-126 film (with and without VCI paper) and/or VpCI™-418L passed testing with no corrosion.

Engine blocks packaged in Boselin or Boselin with VCI paper showed significant failure due to corrosion.