

Phosphorus Emission Index

from the

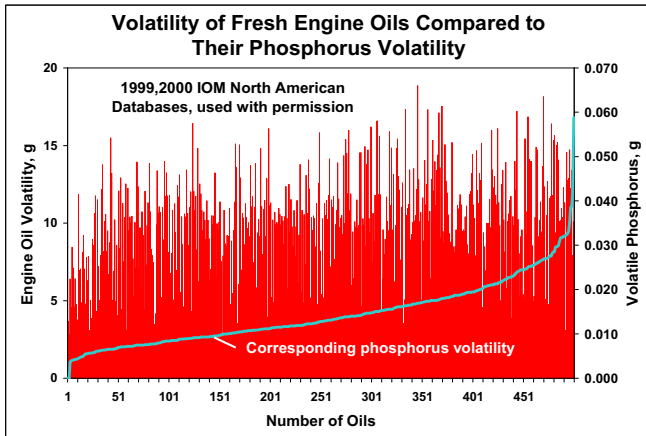
Selby-Noack Instrument

(The most advanced, versatile Noack instrument available.)

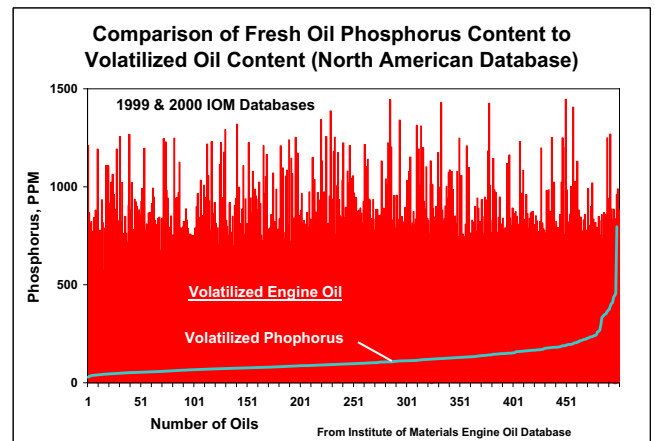
The Selby-Noack measures Noack oil volatility by any of the ASTM D 5800 Procedures A, B, or C. More importantly, it simultaneously produces the *Phosphorus Emission Index* – a measure of the engine oil's adverse effect on the exhaust catalyst.

Some published findings from the Selby-Noack:

- Does the engine oil volatility affect phosphorus volatility? **No!**



- Does the initial phosphorus concentration affect phosphorus volatility? **Surprisingly, no!**



- What does affect phosphorus volatility?

The PEI has shown in published papers that engine oil formulation and the type and chemistry of the ZDDP used are the deciding factors. This information is already being used to modify engine oil formulation.





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