

Summary: Oil 832

8/29/2018

Communication to the TMC & Caterpillar 08/12/18

Please share with the CAT Surveillance Panel the following:

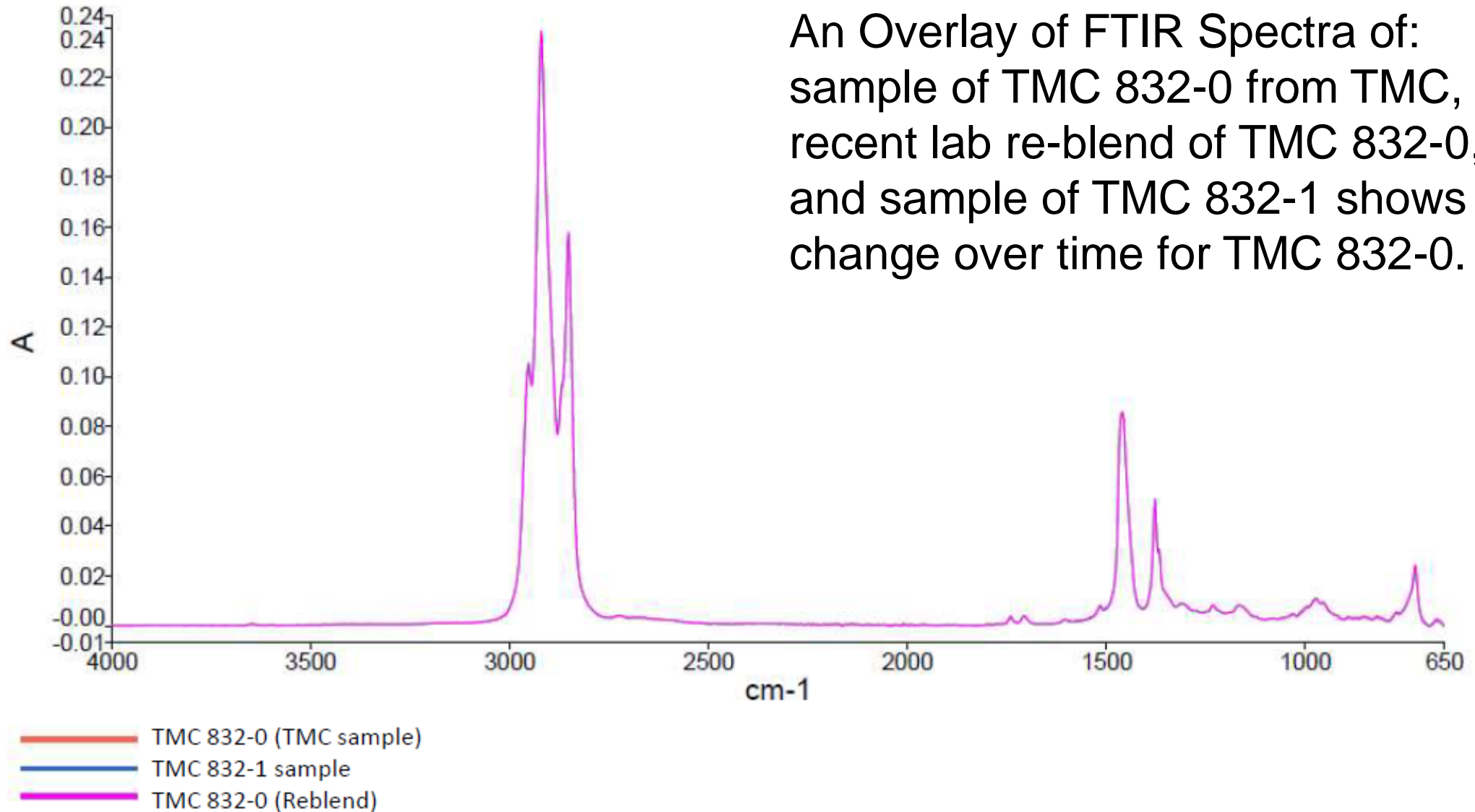
The reference oil supplier of TMC 832-0 was forced to make a change to the formulation of TMC 832-1 due to a change made by the base stock supplier.

The impact of this change may have affected the results of TMC 832-1 with a reduction in measured aeration relative to TMC 832-0, which is being investigated. Additional details and findings will be shared with the Surveillance Panel by next week.

The reference oil supplier of TMC 832 has the results below of a routine analysis of a sample of TMC 832-0 from TMC, a recent lab re-blend of TMC 832-0, and sample of TMC 832-1. The results support that the integrity of TMC 832-0 has not changed significantly over time.

	832-0 (Re-blend)	832-0 (TMC)	832-1
ICP Metals, %m			
Calcium	0.104	0.107	0.107
Magnesium	0.102	0.102	0.105
Molybdenum	0.007	0.007	0.007
Phosphorus	0.112	0.114	0.114
Silicon	0.001	0.001	0.001
Zinc	0.129	0.132	0.130
CCS Vis. @-20C, cP	5970	5700	5823
Kin. Vis. @ 100, cSt	15.1	14.6	14.7
HTHS Vis. @ 150C, cP	4.1	4.0	4.0
D4052 Density, mg/mL	0.8726	0.8735	0.8722
FTIR Spectra	completed	completed	completed

An Overlay of FTIR Spectra of:
sample of TMC 832-0 from TMC, the
recent lab re-blend of TMC 832-0,
and sample of TMC 832-1 shows no
change over time for TMC 832-0.



Conclusion:

We have found no evidence that the integrity of TMC 832-0 has changed over time.