LDEOC/EOEC SURVEILLANCE PANEL

A LDEOC/EOEC conference call was held on 3-20-20, at 9 am Central Standard Time. The following esteemed members were on the call:

Joe Franklin - Intertek Mike Birke – SwRI Jason Bowden – OHT Doyle Boese – Infineum Vince Donndelinger - Lubrizol Robert Stockwell – Oronite Becky Grinfield – SwRI Nicola Boyer - ISP Tom Schofield – TMC Gefei Wu – Valvoline Kimberly Gutierrez - Intertek

The purpose of the call was to discuss the results of the EOEC batch 25/28 (ACM) round robin. The round robin was conducted to determine whether the new processing aid used in batch 28 has any effect on the results. Doyle presented his analysis (attached), and the conclusion is that the only parameter that was statistically significantly different was the volume change. Doyle suggested we implement a correction factor like the one that is currently used in the light duty polyacrylate. Mike Birke put forth a motion that a correction factor for volume change batch 28 EOECP be implemented. Vince Donndelinger approved the motion. There was no opposition, so the motion carried. Tom Schofield then mentioned that we need to clarify whether we will be using the correction factor for batch 29 and subsequent batches. Jason Bowden suggested we continue to use the correction factor for subsequent batches and reconvene the surveillance panel if batch 29 results vary significantly from batch 28. Mike Birke withdrew the original motion and put forth another motion that a correction factor of 0.19 be applied to EOECP batch 28 and all subsequent batches. Vince Donndelinger approved the motion, and there was no opposition, so the motion carried. Tom Schofield will be working with TMC to generate a new data dictionary, flat file, and report form template. The proposed report form (attached) was sent out to the group earlier in the week for review. There were no comments for the group on the format. Tom will then forward the forms and files to the data communication committee, which will have two weeks to beta test the new forms. From there Tom will issue an information letter with report form update. The labs will then have two weeks to get their report forms updated. Since the correction factor was generated with SL107, TMC will only be assigning SL107 for batch 28 EOECP testing. If any lab runs batch 28 before the new report forms are implemented, the lab will need to report the average values with the correction factor and make a note in the comments to that effect. Once the new report forms are ready, the tests will have to be re-reported. Jason Bowden mentioned that they will soon be shipping batch 24 ACM-1 material for round robin testing. Mike Birke will notify the labs when it ships.

There were no other comments, and no new business.

The meeting adjourned at 9:45 am.

EOEC – New ACM Process Aid

D. Boese March 9, 2020



Performance you can rely on.

Summary / Recommendations



- VOLC is the only parameter for which the estimated Correction Factor is statistically significant.
- Recommend that a Correction Factor of 0.19 be added to VOLC results from tests using test material of batches incorporating the new process aid.



- The processing aid for the EOEC ACM material has changed.
- A Round Robin was run to establish a correction factor (CF) for the new material.
- Six labs participated by providing pairs of results (Batch 25 and 28) from two different baths.
- For each bath, the Batch 25 (previous process aid) and Batch 28 (new process aid) samples were tested simultaneously.
- For tests performed in three baths (G 13, G 15 and I 8) the Batch 25 VOLC results failed calibration and therefore those results (both Batch 25 and 28) in those baths were omitted.
- The plots on subsequent slides include Targets and Limits for Batch 25.
- Correction Factors are estimated by regressing the results of each of the four parameters on the Batch Code (EBCODE) and Test Bath (APPARATS).
- Note that statistical significance is relative to within Lab variability.
- Significance level used in this analysis is 0.05.

3

VOLC





- For most of the pairs, VOLC of ACM-25 is higher than that of ACM-28.
- The difference between the pairs may differ by Lab.

4

HARD





• For most of the results from calibrated tests, the HARD for the pair is equal and for the rest is 1 unit different.

TENS





For most of the pairs, TENS of Batch 28 is slightly higher than for Batch 25.

ELON





• For most of the pairs, Batch 25 has slightly higher ELON.

7



EOEC ACM Correction Factors									
Parameter	p-Value								
VOLC	0.19	0.0243							
HARD	-0.22	0.3466							
TENS	-4.81	0.0943							
ELON	5.56	0.0833							

• The only parameter for which the Correction Factor is statistically significant is VOLC.



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D 7216 – Engine Oil Elastomer Compatibility Form 1 – Validity Declaration

Version: EOEC VERSION 20060725 Conducted for: TSTSPON1 TSTSPON2

	V = Valid
LABVALID	$\mathbf{I} = $ Invalid

Elastomer	Bath	Elastomer	Oilcode	CMIR	SOT	SOT	EOT	EOT
Туре	Number	Batch			Date	Time	Date	Time
Nitrile	NBTHNUM	NEBCODE	OILCODE	NCMIR	NSDATE	NSTIME	NDTCOMP	NEOTTIME
Polyacrylate	PBTHNUM	PEBCODE		PCMIR	PSDATE	PSTIME	PDTCOMP	PEOTTIME
Fluoroelastomer	FBTHNUM	FEBCODE		FCMIR	FSDATE	FSTIME	FDTCOMP	FEOTTIME
Silicon	SBTHNUM	SEBCODE		SCMIR	SSDATE	SSTIME	SDTCOMP	SEOTTIME
Vamac	VBTHNUM	VEBCODE		VCMIR	VSDATE	VSTIME	VDTCOMP	VEOTTIME

Alternate Codes:	ALTCODE
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ALTCODE2

ALTCODE3

In my opinion this test_OPVALID been conducted in accordance with Test Method D 7216 and the appropriate amendments through the information letter system. The remarks on Form 7 describe any anomalies associated with this test.

Submitted By:

SUBLAB

Testing Laboratory

SUBSIGIM

Signature

SUBNAME

Typed Name

SUBTITLE

D 7216 – Engine Oil Elastomer Compatibility Form 2 – Candidate Data

Sample Code: OILCODE	Lab: LAB	EOT Date: DTCOMP
Test Method-Version: METHVER		Test Length: TESTLEN

Elastomer	TMC	Parameter	Specification Limit	Acceptance Limits			Reference	Candidate
Identification	Identification			Updated on:	Updated on: NTMCDATE		Result	Result
Type:	Industry Oil:	Volume Change	+5% to -3%	NVLLIMT1	То	NVLLIMT2	RNVLFNL	NVLFNL
Nitrile	NIND	Hardness	+7 pts to -5 pts	NPHLIMT1	То	NPHLIMT2	RNPHFNL	NPHFNL
Batch:	CMIR:	Tensile Strength	+10% to -TMC 1006	NTSLIMT1	То	NTSLIMT2	RNTSFNL	NTSFNL
NEBCODE	NCMIR	Elongation	+10% to -TMC 1006	NELLIMT1	То	NELLIMT2	RNELFNL	NELFNL

Elastomer	TMC	Parameter	Specification Limit	Acceptance Limits			Reference	Candidate
Identification	Identification			Updated on:	n: PTMCDATE		Result	Result
Туре:	Industry Oil:	Volume Change	+5% to -3%	PVLLIMT1	to	PVLLIMT2	RPVLFNL	PVLFNL
Polyacrylate	PIND	Hardness	+8 pts to -5 pts	PPHLIMT1	to	PPHLIMT2	RPPHFNL	PPHFNL
Batch:	CMIR:	Tensile Strength	+18% to -15%	PTSLIMT1	to	PTSLIMT2	RPTSFNL	PTSFNL
PEBCODE	PCMIR	Elongation	+10% to -35%	PELLIMT1	to	PELLIMT2	RPELFNL	PELFNL

Elastomer	TMC	Parameter	Specification Limit	Acceptance Limits			Reference	Candidate
Identification	Identification			Updated on: FTMCDATE		Result	Result	
Type:	Industry Oil:	Volume Change	+5% to -2%	FVLLIMT1	to	FVLLIMT2	RFVLFNL	FVLFNL
Fluoroelastomer	FIND	Hardness	+7 pts to -5 pts	FPHLIMT1	to	FPHLIMT2	RFPHFNL	FPHFNL
Batch:	CMIR:	Tensile Strength	+10% to -TMC 1006	FTSLIMT1	to	FTSLIMT2	RFTSFNL	FTSFNL
FEBCODE	FCMIR	Elongation	+10% to -TMC 1006	FELLIMT1	to	FELLIMT2	RFELFNL	FELFNL

Elastomer	TMC	Parameter	Specification Limit	Acceptance Limits			Reference	Candidate
Identification	Identification			Updated on:	ated on: STMCDATE		Result	Result
Type:	Industry Oil:	Volume Change	+TMC 1006 to -3%	SVLLIMT1	to	SVLLIMT2	RSVLFNL	SVLFNL
Silicon	SIND	Hardness	+5 pts to -TMC 1006	SPHLIMT1	to	SPHLIMT2	RSPHFNL	SPHFNL
Batch:	CMIR:	Tensile Strength	+10% to -45%	STSLIMT1	to	STSLIMT2	RSTSFNL	STSFNL
SEBCODE	SCMIR	Elongation	+20% to -30%	SELLIMT1	to	SELLIMT2	RSELFNL	SELFNL

Elastomer	TMC	Parameter	Specification Limit	Acceptance Limits			Reference	Candidate
Identification	Identification			Updated on:	on: VTMCDATE		Result	Result
Type:	Industry Oil:	Volume Change	+TMC1006 to -3	VVLLIMT1	to	VVLLIMT2	RVVLFNL	VVLFNL
Vamac	VIND	Hardness	+5 to -TMC1006	VPHLIMT1	to	VPHLIMT2	RVPHFNL	VPHFNL
Batch:	CMIR:	Tensile Strength	+10 to -TMC1006	VTSLIMT1	to	VTSLIMT2	RVTSFNL	VTSFNL
VEBCODE	VCMIR	Elongation	+10 to -TMC1006	VELLIMT1	to	VELLIMT2	RVELFNL	VELFNL

D 7216 – Engine Oil Elastomer Compatibility

Form 3 – Results Summary – Non-Reference Oil

Lab: LAB

Sample Code: C	DILCODE
Lab Oil Code:	LABOCODE

Elastomer Type:	NETYPE	Elastomer Batch Code: NEBCODE									
SOT Time:	NSTIME	EOT Time: NEO	EOT Time: NEOTTIME								
SOT Date:	NSDATE	EOT Date: NDT	COMP	Bath Number: N	BTHNUM						
Test	Test	Volume	Hardness	Tensile	Elongation						
Temperature,	Duration,	Change,	Change,	Strength	Change,						
°C	Hours	%	Points	Change, %	%						
NTSTTMP	NTESTLEN	NVL_R001	NPH_R001	NTS_R001	NEL_R001						
		NVL_R002	NPH_R002	NTS_R002	NEL_R002						
		NVL_R003	NPH_R003	NTS_R003	NEL_R003						
		NVL_R004	NPH_R004	NTS_R004	NEL_R004						
		NVL_R005	NPH_R005	NTS_R005	NEL_R005						
		NVL_R006	NPH_R006	NTS_R006	NEL_R006						
Average		NVLAVG	NPHAVG	NTSAVG	NELAVG						
Correction Factor		NVLCOR	NPHCOR	NTSCOR	NELCOR						
Corrected Average		NVLFNL	NPHFNL	NTSFNL	NELFNL						
Standard Deviati	on	NVSTDEV	NHSTDEV	NTSTDEV	NESTDEV						

Elastomer Type: PETYPE		Elastomer Batch Code: PEBCODE			
SOT Time:	PSTIME	EOT Time: PEOTTIME			
SOT Date:	PSDATE	EOT Date: PDT	COMP	Bath Number: PI	BTHNUM
Test	Test	Volume	Hardness	Tensile	Elongation
Temperature,	Duration,	Change,	Change,	Strength	Change,
°C	Hours	%	Points	Change, %	%
PTSTTMP	PTESTLEN	PVL_R001	PPH_R001	PTS_R001	PEL_R001
		PVL_R002	PPH_R002	PTS_R002	PEL_R002
		PVL_R003	PPH_R003	PTS_R003	PEL_R003
		PVL_R004	PPH_R004	PTS_R004	PEL_R004
		PVL_R005	PPH_R005	PTS_R005	PEL_R005
		PVL_R006	PPH_R006	PTS_R006	PEL_R006
Average		PVLAVG	PPHAVG	PTSAVG	PELAVG
Correction Factor		PVLCOR	PPHCOR	PTSCOR	PELCOR
Corrected Average		PVLFNL	PPHFNL	PTSFNL	PELFNL
Standard Deviation		PVSTDEV	PHSTDEV	PTSTDEV	PESTDEV

Elastomer Type: FETYPE		Elastomer Batch Code: FEBCODE			
SOT Time:	FSTIME	EOT Time: FEOTTIME			
SOT Date:	FSDATE	EOT Date: FDT	COMP	Bath Number: FI	BTHNUM
Test	Test	Volume	Hardness	Tensile	Elongation
Temperature,	Duration,	Change,	Change,	Strength	Change,
°C	Hours	%	Points	Change, %	%
FTSTTMP	FTESTLEN	FVL_R001	FPH_R001	FTS_R001	FEL_R001
		FVL_R002	FPH_R002	FTS_R002	FEL_R002
		FVL_R003	FPH_R003	FTS_R003	FEL_R003
		FVL_R004	FPH_R004	FTS_R004	FEL_R004
		FVL_R005	FPH_R005	FTS_R005	FEL_R005
		FVL_R006	FPH_R006	FTS_R006	FEL_R006
Average		FVLAVG	FPHAVG	FTSAVG	FELAVG
Correction Factor		FVLCOR	FPHCOR	FTSCOR	FELCOR
Corrected Average		FVLFNL	FPHFNL	FTSFNL	FELFNL
Standard Deviation		FVSTDEV	FHSTDEV	FTSTDEV	FESTDEV

D 7216 – Engine Oil Elastomer Compatibility Form 4 – Results Summary – Non-Reference Oil – Vamae

Sample Code: OILCODE			Lab: LAB			
Lab Oil Code: La	ABOCODE					
				a 1 app copp		
Elastomer Type: SETYPE		Elastomer Batch Code: SEBCODE				
SOT Time:	SSTIME	EOT Time: SEO	EOT Time: SEOTTIME			
SOT Date:	SSDATE	EOT Date: SDT	COMP	Bath Number: SI	BTHNUM	
Test	Test	Volume	Hardness	Tensile	Elongation	
Temperature,	Duration,	Change,	Change,	Strength	Change,	
°C	Hours	%	Points	Change, %	%	
STSTTMP	STESTLEN	SVL_R001	SPH_R001	STS_R001	SEL_R001	
		SVL_R002	SPH_R002	STS_R002	SEL_R002	
		SVL_R003	SPH_R003	STS_R003	SEL_R003	
		SVL_R004	SPH_R004	STS_R004	SEL_R003	
		SVL_R005	SPH_R005	STS_R005	SEL_R003	
		SVL_R006	SPH_R006	STS_R006	SEL_R003	
Average		SVLAVG	SPHAVG	STSAVG	SELAVG	
Correction Factor		SVLCOR	SPHCOR	STSCOR	SELCOR	
Corrected Average		SVLFNL	SPHFNL	STSFNL	SEELFNL	
Standard Deviation		SVSTDEV	SHSTDEV	STSTDEV	SESTDEV	

Elastomer Type: VETYPE		Elastomer Batch Code: VEBCODE			
SOT Time:	VSTIME	EOT Time: VEOTTIME			
SOT Date:	VSDATE	EOT Date: VD7	ГСОМР	Bath Number: V	BTHNUM
Test	Test	Volume	Hardness	Tensile	Elongation
Temperature,	Duration,	Change,	Change,	Strength	Change,
°C	Hours	%	Points	Change, %	%
VTSTTMP	VTESTLEN	VVL_R001	VPH_R001	VTS_R001	VEL_R001
		VVL_R002	VPH_R002	VTS_R002	VEL_R002
		VVL_R003	VPH_R003	VTS_R003	VEL_R003
		VVL_R004	VPH_R004	VTS_R004	VEL_R004
		VVL_R005	VPH_R005	VTS_R005	VEL_R005
		VVL_R006	VPH_R006	VTS_R006	VEL_R006
Average		VVLAVG	VPHAVG	VTSAVG	VELAVG
Correction Factor		VVLCOR	VPHCOR	VTSCOR	VELCOR
Corrected Average		VVLFNL	VPHFNL	VTSFNL	VEELFNL
Standard Deviation		VVSTDEV	VHSTDEV	VTSTDEV	VESTDEV

Lab Oil Code: LABOCODE Lab: LAB					
		Eut. Eut			
CMIR: NCMIR		TMC Industry Oil Code: NIND			
Elastomer Type: RNETYPE			Elastomer Batch	Code: RNEBCO	DE
SOT Time:	RNSTIME	EOT Time: RNE	OTIME		
SOT Date:	RNSDATE	EOT Date: RNL	ТСОМР	Bath Number: R	NBTHNUM
Test	Test	Volume	Hardness	Tensile	Elongation
Temperature,	Duration,	Change,	Change,	Strength	Change,
°C	Hours	%	Points	Change, %	%
RNTSTTMP	RNTSTLEN	RNVLR001	RNPHR001	RNTSR001	RNELR001
		RNVLR002	RNPHR002	RNTSR002	RNELR002
		RNVLR003	RNPHR003	RNTSR003	RNELR003
		RNVLR004	RNPHR004	RNTSR004	RNELR004
		RNVLR005	RNPHR005	RNTSR005	RNELR005
		RNVLR006	RNPHR006	RNTSR006	RNELR006
Average		RNVLAVG	RNPHAVG	RNTSAVG	RNELAVG
Correction Facto	or	RNVLCOR	RNPHCOR	RNTSCOR	RNELCOR
Corrected Avera	ge	RNVLFNL	RNPHFNL	RNTSFNL	RNELFNL
Standard Deviati	on	RNVSTDEV	RNHSTDEV	RNTSTDEV	RNESTDEV
CMIR: PCMIR			TMC Industry Of	il Code: PIND	
Elastomer Type:	RPETYPE		Elastomer Batch	Code: RPEBCO	DE
SOT Time:	RPSTIME	EOT Time: RP	EOTIME		
SOT Date:	RPSDATE	EOT Date: RP	DTCOMP	Bath Number: R	PBTHNUM
Test	Test	Volume	Hardness	Tensile	Elongation
Temperature,	Duration,	Change,	Change,	Strength	Change,
°C	Hours	%	Points	Change, %	%
RPTSTTMP	RPTSTLEN	RPVLR001	RPPHR001	RPTSR001	RPELR001
		RPVLR002	RPPHR002	RPTSR002	RPELR002
		RPVLR003	RPPHR003	RPTSR003	RPELR003
		RPVLR004	RPPHR004	RPTSR004	RPELR004
		RPVLR005	RPPHR005	RPTSR005	RPELR005
		RPVLR006	RPPHR006	RPTSR006	RPELR006
Average		RPVLAVG	RPPHAVG	RPTSAVG	RPELAVG
Correction Facto	r	RPVLCOR	RPPHCOR	RPTSCOR	RPELCOR
Corrected Avera	ge	RPVLFNL	RPPHFNL	RPTSFNL	RPELFNL
Standard Deviati	lon	RPVSTDEV	RPHSTDEV	RPTSTDEV	RPESTDEV
CMIR: FCMIR		TMC Industry Oil Code: FIND			
Elastomer Type:	RFETYPE	Elastomer Batch Code: RFEBCODE			
SOT Time:	RFSTIME	EOT Time: RFE	OTIME		
SOT Date:	RFSDATE	EOT Date: RFD	ТСОМР	Bath Number: R	FBTHNUM
Test	Test	Volume	Hardness	Tensile	Elongation
Temperature,	Duration,	Change,	Change,	Strength	Change,
°C	Hours	%	Points	Change, %	%
RFTSTTMP	RFTSTLEN	RFVLR001	RFPHR001	RFTSR001	RFELR001
		RFVLR002	RFPHR002	RFTSR002	RFELR002
		RFVLR003	RFPHR003	RFTSR003	RFELR003
		RFVLR004	RFPHR004	RFTSR004	RFELR004
		RFVLR005	RFPHR005	RFTSR005	RFELR005

RFPHR006

RFPHAVG

RFPHCOR

RFPHFNL

RFHSTDEV

RFTSR006

RFTSAVG

RFTSCOR

RFTSFNL

RFTSTDEV

RFELR006

RFELAVG

RFELCOR

RFELFNL

RFESTDEV

RFVLR006

RFVLAVG

RFVLCOR

RFVLFNL

RFVSTDEV

Average

Correction Factor

Corrected Average

Standard Deviation

D 7216 – Engine Oil Elastomer Compatibility Form 5 – Results Summary – Reference Oil

D 7216 – Engine Oil Elastomer Compatibility Form 6 – Results Summary – Reference Oil - Vamae

Lab Oil Code: LABOCODE				Lab: I	LAB	
CMIR: SCMIR		TMC Industry Oil Code: SIND				
Elastomer Type:	RSETYPE	Elastomer Batch Code: RSEBCODE				
SOT Time:	RSSTIME	EOT Time: RSE	EOTIME			
SOT Date:	RSSDATE	EOT Date: RSDTCOMP Bath Number: RSBTHNUM		SBTHNUM		
Test	Test	Volume	Hardness	Tensile	Elongation	
Temperature,	Duration,	Change,	Change,	Strength	Change,	
°C	Hours	%	Points	Change, %	%	
RSTSTTMP	RSTSTLEN	RSVLR001	RSPHR001	RSTSR001	RSELR001	
		RSVLR002	RSPHR002	RSTSR002	RSELR002	
		RSVLR003	RSPHR003	RSTSR003	RSELR003	
		RSVLR004	RSPHR004	RSTSR004	RSELR004	
		RSVLR005	RSPHR005	RSTSR005	RSELR005	
		RSVLR006	RSPHR006	RSTSR006	RSELR006	
Average		RSVLAVG	RSPHAVG	RSTSAVG	RSELAVG	
Correction Factor		RSVLCOR	RSPHCOR	RSTSCOR	RSELCOR	
Corrected Average		RSVLFNL	RSPHFNL	RSTSFNL	RSELFNL	
Standard Deviation		RSVSTDEV	RSHSTDEV	RSTSTDEV	RSESTDEV	

CMIR: VCMIR		TMC Industry Oil Code: VIND			
Elastomer Type: RVETYPE		Elastomer Batch Code: RVEBCODE			
SOT Time:	RVSTIME	EOT Time: RVE	OTIME		
SOT Date:	RVSDATE	EOT Date: RVD	TCOMP	Bath Number: R	VBTHNUM
Test	Test	Volume	Hardness	Tensile	Elongation
Temperature,	Duration,	Change,	Change,	Strength	Change,
°C	Hours	%	Points	Change, %	%
RVTSTTMP	RVTSTLEN	RVVLR001	RVPHR001	RVTSR001	RVELR001
		RVVLR002	RVPHR002	RVTSR002	RVELR002
		RVVLR003	RVPHR003	RVTSR003	RVELR003
		RVVLR004	RVPHR004	RVTSR004	RVELR004
		RVVLR005	RVPHR005	RVTSR005	RVELR005
		RVVLR006	RVPHR006	RVTSR006	RVELR006
Average		RVVLAVG	RVPHAVG	RVTSAVG	RVELAVG
Correction Factor		RVVLCOR	RVPHCOR	RVTSCOR	RVELCOR
Corrected Average		RVVLFNL	RVPHFNL	RVTSFNL	RVELFNL
Standard Deviation		RVVSTDEV	RVHSTDEV	RVTSTDEV	RVESTDEV

D 7216 – Engine Oil Elastomer Compatibility Form 7 – Comments

Sample Code: OILCODE	Lab: LAB EOT Date: DTCOMP
Number of comment lines: TOTCOM	
OCOMR001	
OCOMR002	
OCOMR003	
OCOMR004	
OCOMR005	
OCOMR006	
OCOMR007	
OCOMR008	
OCOMR009	
OCOMR010	
OCOMR011	
OCOMR012	
OCOMR013	
OCOMR014	
OCOMR015	
OCOMR016	
OCOMR017	
OCOMR018	
OCOMR019	
OCOMR020	
OCOMR021	
OCOMR022	
OCOMR023	
OCOMR024	
OCOMR025	
OCOMR026	
OCOMR027	
OCOMR028	
OCOMR029	