

D 7216 – Engine Oil Elastomer Compatibility (Annex A2 – Light-Duty Elastomers)

Form 2 – Candidate Data

Sample Code:	Test Method Version:	Lab:	EOT Date:	Test Length:
CCCCCCCCCCCCCCCCCCCCCCCCCCCC	CCCCCCCCCC	CC	YYYYMMDD	S1234

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	VOLUME CHANGE	S12.12	S12.12
NITRILE (HNBR1)	CCCCCCCCCCCCCCCC	HARDNESS	S12	S12
Batch:	CMIR (TESTKEY):	TENSILE STRENGTH	S123.1	S123.1
CCCCCCCC	CCCCCC			

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	VOLUME CHANGE	S12.12	S12.12
POLYACRYLATE (ACM1)	CCCCCCCCCCCCCCCC	HARDNESS	S12	S12
Batch:	CMIR (TESTKEY):	TENSILE STRENGTH	S123.1	S123.1
CCCCCCCC	CCCCCC			

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	VOLUME CHANGE	S12.12	S12.12
FLUOROELASTOMER (FKM1)	CCCCCCCCCCCCCCCC	HARDNESS	S12	S12
Batch:	CMIR (TESTKEY):	TENSILE STRENGTH	S123.1	S123.1
CCCCCCCC	CCCCCC			

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	VOLUME CHANGE	S12.12	S12.12
SILICONE (VQM1)	CCCCCCCCCCCCCCCC	HARDNESS	S12	S12
Batch:	CMIR (TESTKEY):	TENSILE STRENGTH	S123.1	S123.1
CCCCCCCC	CCCCCC			

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	VOLUME CHANGE	S12.12	S12.12
ETHYLENE ACRYLATE (AEM1)	CCCCCCCCCCCCCCCC	HARDNESS	S12	S12
Batch:	CMIR (TESTKEY):	TENSILE STRENGTH	S123.1	S123.1
CCCCCCCC	CCCCCC			

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Form 3 – Candidate Data (continued)

Sample Code:	Test Method Version:	Lab:	EOT Date:	Test Length:
CCCCCCCCCCCCCCCCCCCCCCCCCCCC	CCCCCCCCCC	CC	YYYYMMDD	S1234

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	VOLUME CHANGE	S12.12	S12.12
POLYACRYLATE-2 (ACM2)	CCCCCCCCCCCCCCCC	HARDNESS	S12	S12
Batch:	CMIR (TESTKEY):	TENSILE STRENGTH	S123.1	S123.1
CCCCCCC	CCCCCC			

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	VOLUME CHANGE	S12.12	S12.12
ETHYLENE ACRYLATE-2 (AEM2)	CCCCCCCCCCCCCCCC	HARDNESS	S12	S12
Batch:	CMIR (TESTKEY):	TENSILE STRENGTH	S123.1	S123.1
CCCCCCC	CCCCCC			

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	VOLUME CHANGE	S12.12	S12.12
FLUOROELASTOMER-3 (FKM3)	CCCCCCCCCCCCCCCC	HARDNESS	S12	S12
Batch:	CMIR (TESTKEY):	TENSILE STRENGTH	S123.1	S123.1
CCCCCCC	CCCCCC			

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	VOLUME CHANGE	S12.12	S12.12
ETHYLENE ACRYLATE-3 (AEM3)	CCCCCCCCCCCCCCCC	HARDNESS	S12	S12
Batch:	CMIR (TESTKEY):	TENSILE STRENGTH	S123.1	S123.1
CCCCCCC	CCCCCC			

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Form 4 – Results Summary – Candidate (Non-Reference Oil)

Sample Code:	Lab Oil Code:	Lab:
CCCCCCCCCCCCCCCCCCCC	CCCCCCCCCCCCCCCCCCCC	CC

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			Elastomer Batch Code: CCCCCCCC Bath Number: CCCCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			Elastomer Batch Code: CCCCCCCC Bath Number: CCCCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			Elastomer Batch Code: CCCCCCCC Bath Number: CCCCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

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Form 5 – Results Summary – Candidate (Non-Reference Oil)

Sample Code:	Lab Oil Code:	Lab:
CCCCCCCCCCCCCCCCCCCC	CCCCCCCCCCCCCCCCCCCC	CC

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			Elastomer Batch Code: CCCCCC Bath Number: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			Elastomer Batch Code: CCCCCC Bath Number: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			Elastomer Batch Code: CCCCCC Bath Number: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

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Form 6 – Results Summary – Candidate (Non-Reference Oil)

Sample Code:	Lab Oil Code:	Lab:
CCCCCCCCCCCCCCCCCCCC	CCCCCCCCCCCCCCCCCCCC	CC

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			Elastomer Batch Code: CCCCCC Bath Number: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			Elastomer Batch Code: CCCCCC Bath Number: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			Elastomer Batch Code: CCCCCC Bath Number: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

D 7216 – Engine Oil Elastomer Compatibility (Annex A2 – Light-Duty Elastomers)
Form 7 – Results Summary – Reference Oil

Lab Oil Code:	Lab:
CCCCCCCCCCCCCCCCCCCC	CC

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			TMC Industry Oil Code: CCCCCCCCCCCCCC		
CMIR (TESTKEY): CCCCCC			Batch Code: CCCCCCCC		
Bath Number: CCCCCCCC			Bath Type: CCCCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			TMC Industry Oil Code: CCCCCCCCCCCCCC		
CMIR (TESTKEY): CCCCCC			Batch Code: CCCCCCCC		
Bath Number: CCCCCCCC			Bath Type: CCCCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			TMC Industry Oil Code: CCCCCCCCCCCCCC		
CMIR (TESTKEY): CCCCCC			Batch Code: CCCCCCCC		
Bath Number: CCCCCCCC			Bath Type: CCCCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

D 7216 – Engine Oil Elastomer Compatibility (Annex A2 – Light-Duty Elastomers)**Form 8 – Results Summary – Reference Oil**

Lab Oil Code:	Lab:
CCCCCCCCCCCCCCCCCCCC	CC

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC TMC Industry Oil Code: CCCCCCCCCCCCCC					
CMIR (TESTKEY): CCCCCC			Batch Code: CCCCCC		
Bath Number: CCCCCC			Bath Type: CCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC TMC Industry Oil Code: CCCCCCCCCCCCCC					
CMIR (TESTKEY): CCCCCC			Batch Code: CCCCCC		
Bath Number: CCCCCC			Bath Type: CCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC TMC Industry Oil Code: CCCCCCCCCCCCCC					
CMIR (TESTKEY): CCCCCC			Batch Code: CCCCCC		
Bath Number: CCCCCC			Bath Type: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

D 7216 – Engine Oil Elastomer Compatibility (Annex A2 – Light-Duty Elastomers)**Form 9 – Results Summary – Reference Oil**

Lab Oil Code:	Lab:
CCCCCCCCCCCCCCCCCCCC	CC

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC TMC Industry Oil Code: CCCCCCCCCCCCCC					
CMIR (TESTKEY): CCCCCC			Batch Code: CCCCCC		
Bath Number: CCCCCC			Bath Type: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC TMC Industry Oil Code: CCCCCCCCCCCCCC					
CMIR (TESTKEY): CCCCCC			Batch Code: CCCCCC		
Bath Number: CCCCCC			Bath Type: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

Elastomer Type: CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC TMC Industry Oil Code: CCCCCCCCCCCCCC					
CMIR (TESTKEY): CCCCCC			Batch Code: CCCCCC		
Bath Number: CCCCCC			Bath Type: CCCCCC		
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
S123	S1234	S123.12	S123456	S1234.1	
Start of Test, Date / Time	End of Test, Date / Time	S123.12	S123456	S1234.1	
		S123.12	S123456	S1234.1	
HH:MM	HH:MM	S123.12	S123456	S1234.1	
YYYYMMDD	YYYYMMDD	S123.12	S123456	S1234.1	
VOL, HARD, TENSTR Change		S123.12	S123456	S1234.1	
Average		S12.12	S12	S123.1	
Correction Factor		S12.12	S12	S123.1	
Corrected Average		S12.12	S12	S123.1	
Standard Deviation		S12.12	S12.12	S12.12	

D 7216 – Engine Oil Elastomer Compatibility (Annex A2 – Light-Duty Elastomers)
Form 10 – Comments

Sample Code:	CCCCCCCCCCCCCCCCCCCCCCCCCCCC	Lab:	CC	EOT Date:	YYYYMMDD
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