

**D 7216 – Engine Oil Elastomer Compatibility (Annex A2 – Light-Duty Elastomers)
Form 1 – Validity Declaration**

Version:
Conducted for:

V = Valid
I = Invalid

Elastomer Type	Bath Number	Elastomer Batch	Oilcode	CMIR	SOT Date	SOT Time	EOT Date	EOT Time
Nitrile								
Polyacrylate								
Fluoroelastomer								
Silicone								
Ethylene Acrylate								

Alternate Codes:			
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In my opinion this test _____ been conducted in accordance with Test Method D 7216, Annex A2, and the appropriate amendments through the Information Letter System. The remarks on Form 7 describe any anomalies associated with this test.

Submitted By: _____

Testing Laboratory

Signature

Typed Name

Title

D 7216 – Engine Oil Elastomer Compatibility (Annex A2 – Light-Duty Elastomers) Form 2 – Candidate Data

Sample Code:	Lab:	EOT Date:
Test Method Version:		Test Length:

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	Volume Change		
Nitrile		Hardness		
Batch:	CMIR:	Tensile Strength		

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	Volume Change		
Polyacrylate		Hardness		
Batch:	CMIR:	Tensile Strength		

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	Volume Change		
Fluoroelastomer		Hardness		
Batch:	CMIR:	Tensile Strength		

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	Volume Change		
Silicone		Hardness		
Batch:	CMIR:	Tensile Strength		

Elastomer Identification	TMC Identification	Parameter	Reference Result	Candidate Result
Type:	Industry Oil:	Volume Change		
Ethylene Acrylate		Hardness		
Batch:	CMIR:	Tensile Strength		

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

Form 3 – Results Summary – Non-Reference Oil

Sample Code:	Lab:
Lab Oil Code:	

Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

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

Form 4 – Results Summary – Non-Reference Oil

Sample Code:	Lab:
Lab Oil Code:	

Elastomer Type:			Elastomer Batch Code:		
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

Elastomer Type:			Elastomer Batch Code:		
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

D 7216 – Engine Oil Elastomer Compatibility (Annex A2 – Light-Duty Elastomers)**Form 5 – Results Summary – Reference Oil**

Lab Oil Code:		Lab:			
CMIR:		TMC Industry Oil Code:			
Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

CMIR:		TMC Industry Oil Code:			
Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

CMIR:		TMC Industry Oil Code:			
Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

**D 7216 – Engine Oil Elastomer Compatibility (Annex A2 – Light-Duty Elastomers)
Form 6 – Results Summary – Reference Oil**

Lab Oil Code:	Lab:
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CMIR:		TMC Industry Oil Code:			
Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

CMIR:		TMC Industry Oil Code:			
Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	
Average					
Correction Factor					
Corrected Average					
Standard Deviation					

