

**D 7216 – Engine Oil Elastomer Compatibility (Annex A3 – 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								
Silicon								
Ethylene Acrylate								

Alternate Codes:			
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In my opinion this test _____ been conducted in accordance with Test Method D 7216, Annex A3, 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 A3 – Light-Duty Elastomers) Form 2 – Candidate Data

Sample Code:		Lab:	EOT Date:	Test Length:			
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Elastomer Identification	TMC Identification	Parameter	Specification Limit	Acceptance Limits			Reference Result	Candidate Result
				Updated on:				
Type:	Industry Oil:	Volume Change	+5% to -3%		to			
Nitrile		Hardness	+7 pts to -5 pts		to			
Batch:	CMIR:	Tensile Strength	+10% to -TMC 1006		to			
		Elongation	+10% to -TMC 1006		to			
		Tensile Stress			to			

Elastomer Identification	TMC Identification	Parameter	Specification Limit	Acceptance Limits			Reference Result	Candidate Result
				Updated on:				
Type:	Industry Oil:	Volume Change	+5% to -3%		to			
Polyacrylate		Hardness	+8 pts to -5 pts		to			
Batch:	CMIR:	Tensile Strength	+18% to -15%		to			
		Elongation	+10% to -35%		to			
		Tensile Stress			to			

Elastomer Identification	TMC Identification	Parameter	Specification Limit	Acceptance Limits			Reference Result	Candidate Result
				Updated on:				
Type:	Industry Oil:	Volume Change	+5% to -2%		to			
Fluoroelastomer		Hardness	+7 pts to -5 pts		to			
Batch:	CMIR:	Tensile Strength	+10% to -TMC 1006		to			
		Elongation	+10% to -TMC 1006		to			
		Tensile Stress			to			

Elastomer Identification	TMC Identification	Parameter	Specification Limit	Acceptance Limits			Reference Result	Candidate Result
				Updated on:				
Type:	Industry Oil:	Volume Change	+TMC 1006 to -3%		to			
Silicon		Hardness	+5 pts to -TMC 1006		to			
Batch:	CMIR:	Tensile Strength	+10% to -45%		to			
		Elongation	+20% to -30%		to			
		Tensile Stress			to			

Elastomer Identification	TMC Identification	Parameter	Specification Limit	Acceptance Limits			Reference Result	Candidate Result
				Updated on:				
Type:	Industry Oil:	Volume Change	+TMC1006 to -3		to			
Ethylene Acrylate		Hardness	+5 to -TMC1006		to			
Batch:	CMIR:	Tensile Strength	+10 to -TMC1006		to			
		Elongation	+10 to -TMC1006		to			
		Tensile Stress			to			

**D 7216 – Engine Oil Elastomer Compatibility (Annex A3 – Light-Duty Elastomers)
Form 4 – Results Summary – Non-Reference Oil - Ethylene Acrylate**

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, %	Elongation Change, %	Tensile Stress Change, %
Average						
Standard Deviation						

**D 7216 – Engine Oil Elastomer Compatibility (Annex A3 – Light-Duty Elastomers)
Form 6 – Results Summary – Reference Oil - Ethylene Acrylate**

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, %	Elongation Change, %	Tensile Stress Change, %
Average						
Standard Deviation						

