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:			

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:

Elastomer Identification	TMC Identification	Parameter	Specification Limit	Acceptance Limits Updated on:			Reference Result	Candidate Result
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 Updated on:			Reference Result	Candidate Result
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 Updated on:			Reference Result	Candidate Result
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 Updated on:			Reference Result	Candidate Result
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 Updated on:			Reference Result	Candidate Result
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 3 – Results Summary – Non-Reference Oil

Sample Code: Lab:
Lab Oil Code:

Elastomer Type: Elastomer Batch Code:
SOT Time: EOT Time:
SOT Date: EOT Date: Bath Number:

Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	Elongation Change, %	Tensile Stress Change, %
Average						
Standard Deviation						

Elastomer Type: Elastomer Batch Code:
SOT Time: EOT Time:
SOT Date: EOT Date: Bath Number:

Average						
Standard Deviation						

Elastomer Type: Elastomer Batch Code:
SOT Time: EOT Time:
SOT Date: EOT Date: Bath Number:

Average						
Standard Deviation						

Elastomer Type: Elastomer Batch Code:
SOT Time: EOT Time:
SOT Date: EOT Date: Bath Number:

Average						
Standard Deviation						

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:				
SOT Date:		EOT Date:		Bath Number:		
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 5 – Results Summary – Reference Oil

Lab Oil Code:	Lab:

CMIR: TMC Industry Oil Code:
Elastomer Type: Elastomer Batch Code:
SOT Time: EOT Time:
SOT Date: EOT Date: Bath Number:

Test Temperature, °C	Test Duration, Hours	Volume Change, %	Hardness Change, Points	Tensile Strength Change, %	Elongation Change, %	Tensile Stress Change, %
Average						
Standard Deviation						

CMIR: TMC Industry Oil Code:
Elastomer Type: Elastomer Batch Code:
SOT Time: EOT Time:
SOT Date: EOT Date: Bath Number:

Average						
Standard Deviation						

CMIR: TMC Industry Oil Code:
Elastomer Type: Elastomer Batch Code:
SOT Time: EOT Time:
SOT Date: EOT Date: Bath Number:

Average						
Standard Deviation						

CMIR: TMC Industry Oil Code:
Elastomer Type: Elastomer Batch Code:
SOT Time: EOT Time:
SOT Date: EOT Date: Bath Number:

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:

CMIR:		TMC Industry Oil Code:				
Elastomer Type:		Elastomer Batch Code:				
SOT Time:		EOT Time:				
SOT Date:		EOT Date:		Bath Number:		
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 7 – Comments

Sample Code:	Lab:	EOT Date:

Number of comment lines: