

**D xxxx – Engine Oil Elastomer Compatibility
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								
Vamac								

Alternate Codes:			
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In my opinion this test _____ been conducted in accordance with Test Method D xxxx 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 xxxx – Engine Oil Elastomer Compatibility
Form 2 – 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, %	Elongation Change, %
Average					
Standard Deviation					

Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Average					
Standard Deviation					

Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Average					
Standard Deviation					

Elastomer Type:		Elastomer Batch Code:			
SOT Time:		EOT Time:		Bath Number:	
SOT Date:		EOT Date:			
Average					
Standard Deviation					

**D xxxx – Engine Oil Elastomer Compatibility
Form 3 – Results Summary – Non-Reference Oil - Vamac**

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, %
Average					
Standard Deviation					

D xxxx – Engine Oil Elastomer Compatibility

Form 4 – 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, %	Elongation Change, %
Average					
Standard Deviation					

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

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

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

**D xxxx – Engine Oil Elastomer Compatibility
Form 5 – Results Summary – Non-Reference Oil - Vamac**

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, %
Average					
Standard Deviation					

**D xxxx – Engine Oil Elastomer Compatibility
Form 6 – Candidate Data**

Sample Code: _____ Lab: _____ EOT Date: _____

Elastomer Identification	Parameter	Specification Limit	Candidate Result	TMC Identification	Reference Acceptance Limits	Reference Result
					Updated on:	
Type: Nitrile	Volume Change	+5% to -3%		Industry Oil:	to	
	Hardness	+7 pts to -5 pts			to	
Batch:	Tensile	+10% to -TMC 1006		CMIR:	to	
	Strength	+10% to -TMC 1006			to	

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

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

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

Elastomer Identification	Parameter	Specification Limit	Candidate Result	TMC Identification	Reference Acceptance Limits	Reference Result
					Updated on:	
Type: Vamac	Volume Change	Report		Industry Oil:	to	
	Hardness	Report			to	
Batch:	Tensile	Report		CMIR:	to	
	Strength	Report			to	

