### D 7216 – Engine Oil Elastomer Compatibility (Annex A3 – Light-Duty Elastomers) Form 1 – Validity Declaration

Version: Conducted for:

Elastomer	Bath	Elastomer	Oilcode	CMIR	SOT	SOT	ЕОТ	EO
Type	Number	Batch		00.000	Date	Time	Date	Time
Vitrile								
olyacrylate								
luoroelastomer								
ilicon								i
Ethylene Acrylate								
Alternate	Codes							7
Alternate	Codes:							
	•							_
In my on	inion this tes	f	heen conducted in accordance wit	th Test Method D 72	16 Annex A	3 and the a	nnronriate	_ _
		tthe Information Let		th Test Method D 72	216, Annex A	3, and the a	ppropriate test.	
			been conducted in accordance with ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	16, Annex A alies associat	3, and the a	ppropriate test.	
			been conducted in accordance with ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	16, Annex A alies associat	.3, and the a red with this	ppropriate test.	
			ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	16, Annex A alies associat	3, and the a ed with this	ppropriate test.	
			been conducted in accordance with ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	116, Annex A alies associat	ed with this	test.	
			ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	16, Annex A alies associat	ed with this	ppropriate test. ng Laboratory	
			ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	16, Annex A alies associat	ed with this	test.	
			ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	16, Annex A alies associat	ed with this	test.	
			ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	16, Annex A alies associat	ed with this	test. ng Laboratory	
			ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	16, Annex A alies associat	ed with this	test.	
			ter System. The remarks on Form 7	th Test Method D 72 7 describe any anom	16, Annex A alies associat	ed with this	test. ng Laboratory	

Title

## D 7216 – Engine Oil Elastomer Compatibility (Annex A3 – Light-Duty Elastomers) Form 2 – Candidate Data

Sample Code:	Lah	FOT Date:	Test Length:	
Sample Code:	Lab:	EOT Date:	Test Length:	

Elastomer	TMC	Parameter	Specification Limit	Acceptance	e Limits	Reference	Candidate
Identification	Identification			Updated on:		Result	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	TMC	Parameter	Specification Limit	Acceptance Limits		Reference	Candidate
Identification	Identification			Updated on:		Result	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	TMC	Parameter	Specification Limit	Acceptance Limits	Reference	Candidate
Identification	Identification			Updated on:	Result	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	TMC	Parameter	Specification Limit	Acceptance Limits		Reference	Candidate
Identification	Identification			Updated on:		Result	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	TMC	Parameter	Specification Limit	Acceptance Limits	Reference	Candidate
Identification	Identification			Updated on:	Result	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 Oil Code:					Lab:	
Zuo on coue.						
Elastomer Type:			Elastome	r Batch Code:		
SOT Time:		EOT Time:	Bath Number:			
SOT Date: Test	Test	EOT Date:  Volume	Hardness	Tensile	Elongation	Tensile
Temperature,	Duration,	Change,	Change,	Strength	Change, %	Stress
°C	Hours	%	Points	Change, %		Change, %
Average						
Standard Deviati	ion					
				1	ı	ı
Elastomer Type:			Elastome	r Batch Code:		
SOT Time:		EOT Time:				
SOT Date:		EOT Date:		Bath	Number:	
Average						
Standard Deviate	ion					
Elastomer Type:			Electomo	r Batch Code:		
SOT Time:		EOT Time:	Liastonie	i Batcii Code.		
SOT Date:		EOT Date:		Bath 1	Number:	
Average						
Standard Deviati	ion					
				1	ı	ı
Elastomer Type:			Elastome	r Batch Code:		
SOT Time:		EOT Time:				
SOT Date:	1	EOT Date:		Bath 1	Number:	I
		+				
Average						
L Standard Daviet	ion	i J		ĺ	1	1

# 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:		<b>EOT Time:</b>					
SOT Date:		EOT Date:		Bath 1	Number:		
Test	Test	Volume	Hardness	Tensile	Elongation	Tensile	
Temperature,	Duration,	Change,	Change,	Strength	Change, %	Stress	
°C	Hours	%	Points	Change, %		Change, %	
Average							
Standard Deviati	on						

### D 7216 – Engine Oil Elastomer Compatibility (Annex A3 – Light-Duty Elastomers) Form 5 – Results Summary – Reference Oil

Lab Oil Code:					Lab:		
CMIR: Elastomer Type: SOT Time:		TMC Industry Oil Code: Elastomer Batch Code: EOT Time: EOT Date: Bath Number:					
SOT Date:	T		TT1			T11-	
Test Temperature, °C	Test Duration, Hours	Volume Change,	Hardness Change, Points	Tensile Strength Change, %	Elongation Change, %	Tensile Stress Change, %	
	110 0115	,,	1 01110	Ciluige, 70		enunge, ,	
Average							
Standard Deviati	on						
CMID			TMC I 1	. O'1 C 1			
CMIR:				ustry Oil Code r Batch Code:	:		
Elastomer Type: SOT Time:		EOT Time:	Elastome	i Batch Code.			
SOT Date:		EOT Date:		Bath 1	Number:		
201240.					l (unite unite uni		
Average							
Standard Deviati	on						
CMIR:			TMC Ind	ustry Oil Code	.•		
Elastomer Type:				r Batch Code:	•		
SOT Time:		EOT Time:					
SOT Date:		EOT Date:		Bath I	Number:		
Avamaga							
Average Standard Deviati	on						
Standard Deviati	OII						
CMIR:			TMC Ind	ustry Oil Code	:		
Elastomer Type:			Elastome	r Batch Code:			
SOT Time:		EOT Time:					
SOT Date:	T	EOT Date:		Bath I	Number:	1	
Average							
Standard Deviati	on						

## 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 Ind	ustry Oil Code	<b>:</b>	
Elastomer Type:		Elastomer Batch Code:				
SOT Time:		<b>EOT Time:</b>				
SOT Date:		EOT Date:		Bath 1	Number:	
Test	Test	Volume	Hardness	Tensile	Elongation	Tensile
Temperature,	Duration,	Change,	Change,	Strength	Change, %	Stress
°C	Hours	%	Points	Change, %		Change, %
Average						
Standard Deviation	on					

## D 7216 – Engine Oil Elastomer Compatibility (Annex A3 – Light-Duty Elastomers) Form 7 – Comments

Sample Code:	Lab:	EOT Date:
Number of comment lines:		