



O-Ring Division
 2360 Palumbo Drive
 Lexington, KY 40509
 (859) 269-2351

Date: 3/22/2022
 Compound: V1289, LV2300-08 (VG130-75)
 Part Size: T0606075
 Specification: ASTM D2000 M2HK707 A1-10 B37 B38 E078 Z1 (Shore A Hardness 75 +/-5), Z2 Elongation 100% min, Z3 (Specific Gravity), Z4 (TR-10)

LABORATORY TEST REPORT

Report:	LTR90033	LTR138862
Lab:	Lexington	Lexington
Compound:	V1289	LV2300-08 (VG130-75)
Batch:	80047465	81076766

<u>Original Physical Properties</u>	<u>Test Method</u>	<u>Spec Limits</u>	<u>Test Results</u>	<u>Test Results</u>
(Z1) Hardness, Shore A, pts.	ASTM D2240	75 ±5	76	77
Tensile Strength, PSI (Mpa)	ASTM D412	1015 (7)	1766 (12.18)	1669 (11.51)
(Z2) Ultimate Elongation, %	ASTM D412	100	151	168
(Z3) Specific Gravity	ASTM D297	as received	1.88	1.74
Fluid Resistance (Basic Requirement)				
<u>IRM 903, 70 hrs @ 302°F</u>				
Volume Change, %	ASTM D471	+10	+2	+2
(A1-10) Heat Age				
<u>70 hrs. @ 482°F</u>				
Hardness Change, pts.	ASTM D573	+10	-1	-1
Tensile Strength Change, %		-25	-9	-20
Ultimate Elongation Change, %		-25	+7	-10
(B37) Compression Set (Plied)				
<u>22 hrs. @ 347°F</u>				
Percent of Original Deflection, Max	ASTM D395 Method B	50	11	5
(B38) Compression Set (Plied)				
<u>22 hrs. @ 392°F</u>				
Percent of Original Deflection, Max	ASTM D395 Method B	50	16	5
(E078) Fluid Resistance				
<u>Service Fluid 101*, 70 hrs @ 392°F</u>				
Hardness Change, pts.	ASTM D471	-15 to +5	-6	-3
Tensile Strength Change, %		-40	-15	-13
Ultimate Elongation Change, %		-20	-8	-3
Volume Change, %		0 to +15	+9	+5
(Z4) Low Temperature Resistance				
TR-10, temperature °F, (°C)	ASTM D1329	report	-37(-38)	-44 (-42)

*Service Fluid 101 is no longer readily available. The recommended alternative Mobil Jet II was used to generate VG130 comparative data

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Tested By: Jacob Ballard Approved By: Caitlyn Frankum

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