



## Valero Lubricant Base Oils Typical Oil Properties

Valero Lubricant Base Oils are premium-quality, fully refined and dewaxed paraffinic base oils. These oils are well suited for formulating a wide variety of automotive, industrial and marine lubricants, as well as, diluents for additives and process oil applications. Physical properties are listed below and may vary slightly.

<b>Valero VP</b>		<b>165</b>	<b>500</b>	<b>700</b>	<b>150 BS</b>
<b>METHOD</b>	<b>TEST</b>	<b>TYPICAL PROPERTIES</b>			
VISUAL	Appearance	←-----CLEAR AND BRIGHT-----→			
D4052	API Gravity	30.1	28.7	26.8	24.9
CALC	Lbs/Gallon @ 60°F/15.6°C	7.30	7.36	7.46	7.45
D445	Viscosity				
	@ 40 °C, cSt	32.8	91.5	146.4	488.2
	@ 100 °C, cSt	5.4	10.5	14.0	31.7
	@ 100 °F, SUS	157	477	770	2620
D2270	Viscosity Index	98	96	91	96
D5293	CCS @ -25°C, Cp	-	-	-	-
	@ -20 °C, Cp	2404	-	-	-
D97	Pour Point, °C	-7	-7	-7	-5
D92	COC Flash Pt, °C	219	259	272	306
D1500	ASTM Color	L0.5	L1.0	L1.5	L3.0
D4294	Sulfur, Wt.%	0.38	0.53	0.90	1.10
D2887	GC Sim Distillation				
	Boiling Range ,°C				
	5%	307	304	315	258
	95%	364	415	426	387
	519	547	555	563	
	% Off at 700°F/371°C	7.4			
D5800	Noack Vol, Wt.%	15.4			
D4530	CCR, Wt.%	<0.01	0.03	0.05	0.52
D2007	Clay Gel Analysis				
	Asphaltenes, Wt.%	<0.1	<0.1	<0.1	<0.1
	Aromatics, Wt.%	31.1	28.0	33.7	36.1
	Polar Cpds, Wt.%	0.3	0.4	0.7	3.2
	Saturates, Wt.%	68.6	71.6	65.4	60.7

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