

	Total Quartz Racing	Motul 8100 X-Power	Elf HTX 860	Liqui Moly Synthoil Race Tech GT1	Pennzoil Platinum Racing	Shell Helix Ultra Racing
Kinematic Viscosity 100C	23.60	23.50	23.59	24.00	23.20	23.10
Kinematic Viscosity 40C	167.00	163.40	150.60	168.00	164.00	160.10
Viscosity Index (A)	172.00	174.00		174.00	171.00	174.00
Denisty 15C	857.00	851.00	857.00	850.00	846.00	845.80
Flash Point - Celsius	250.00	242.00	246.00	246.00	224.00	250.00
Pour Point - Celsius	-36	-36		-36	-45	-42
Evaporative Loss				5.30%		
Sulfate Ash (%)		1.09		1.0-1.6G/1,00		
Phosphorous (%)						
TBN		10.1		10.5		

* Motorcycle Oil

** Straight 60 weight

(1) At 20C

(A) Higher is better

Total Base Number (TBN) - Higher is better. Remove acidic corrosive impurities.

Viscosity Index: The scale to compare the rate of viscosity change with temperature among different fluids.

A fluid that thins more upon heating (and therefore thickens more upon cooling) has a lower VI than one that thins less and thickens less. Or put another way, higher VI oils change their viscosity less when the temperature changes.

TBN: 7–10 for new oil. Below 3 suggests need for oil change.

	Ardeca Pure Sports	Ardeca Racing Plus	AGIP Racing 4T	Maxima Extra 4*	Motorex Power Synt 4T*	Ravenol Racing Sport RSS Synto
Kinematic Viscosity 100C	23.00	24.50	23.50	25.10	23.40	23.60
Kinematic Viscosity 40C	164.40	171.00	160.00	131.60	158.90	154.40
Viscosity Index (A)	169.00	175.00	177.00	211.00	178.00	184.00
Denisty 15C	859.00	871.00	875.00	875.20	863(1)	859(1)
Flash Point - Celsius		238.00	220.00	239.00	200.00	236.00
Pour Point - Celsius	-36	-36	-36	-48	-51	-51
Evaporative Loss						
Sulfate Ash (%)		1				1.3
Phosphorous (%)						
TBN						

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Castrol BMW TWS Edge	Castrol Edge Supercar	Red Line Synthetic	**Valvoline VR-1	**PennGrade 1	Amsoil Dominator	Rowe Hightec Racing	Royal Purple XPR
24.20	22.70	25.90	23.00	22.30	25.00	26.20	22.19
161.00	160.00	170.00	158.00	274.00	186.80	174.40	102.40
179.00	173.00	187.00	175.00	105.00	166.00	186.00	246.00
864.00	853.00		867.00	897.00		850.00	
200.00	203.00	234.00	220.00	218.00	234.00	240.00	204.00
-51	-39	-45	-45	-15	-36	-38	-42
		6%		1		5.75%	
1.1	1.29G/1,000						
			12			9.2	10.19

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Millers CFS 10W-60	Millers CFS 10W-60 NT	Motul 7100 4T *	Mobil-1 Extended Life	Gulf Competition	Beck-Arnley	Rowe Hightec Syn RS
22.70	24.40	23.90	22.70	24.10	23.00	25.00
159.60	170.80	160.10	152.70	168.00	170.00	165.50
171.00	175.00	181.00	178.00	175.00		186.00
	870.00	862 (1)	860.00	866.00	850.00	853.00
240.00	226.00	232.00	234.00		>200	240.00
-42	-42	-33		-32		-35
						5.70%
			1.4			
			0.13			
	10.1	8.4	11.8	9.2		10

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