

Passenger Car Engine Oil



PRODUCT DESCRIPTION

High Performance Lubricants' passenger car engine oil is a multi-synthetic high performance motor oil made with the best choices of additive chemistry. Oils formulated with specifically chosen esters can help to minimize intake valve deposits, maintain clean engines and provide elastomer compatibility. The correct detergent selection combined with base stocks that have low volatility will combat low speed pre-ignition (LSPI) making it a perfect oil for gasoline direct injected (GDI) engines and small displacement turbocharged gasoline engines. HPL PCMO is also formulated with extra anti-wear and antioxidant additives to minimize wear while offering an extended oil life compared to other motor oils. Additionally, HPL PCMO contains premium viscosity index improvers (VII) to minimize shear, further extending the life of the oil. This technology has been proven on the race tracks around the nation. Our Bad Ass Racing oils have common additive strategy when compared to this PCMO formulation and have been extremely successful winning multiple championships in many forms of professional motor-sports. These oils are not something you will find on the shelf of a discount retailer. If you are a person looking for a product that will outperform traditional mineral and synthetic oils our products will be a perfect fit for you.

FEATURES

- Excellent wear protection and superior high temperature stability
- Formulated to help eliminate LSPI
- Excellent for GDI engines
- Helps minimize intake valve deposits
- Compatible with conventional and synthetic oils
- Good low temperature performance
- Compatible with conventional and synthetic oils
- Low Coefficient of friction
- Meets or Exceeds:
 - API SP Resource Conserving (5W-20, 5W-30, 10W-30)
 - API SP (10W-40, 15W-40, 20W-50, 30, 40)
 - dexos1™ Gen2 (5W-20, 5W-30)
 - ILSAC GF-6A (5W-20, 5W-30, 10W-30)
 - Chrysler MS6395 (5W-20, 5W-30, 10W-30)
 - Ford WSS-M2C945-B1 (5W-20)
 - Ford WSS-M2C946-B1 (5W-30)



3 time NHRA Pro Stock World Champion Erica Enders

Passenger Car Engine Oil Typical Properties



	Method	SAE 5W-20	SAE 5W-30	SAE 5W-40	SAE 10W-20	SAE 10W-30	SAE 10W-40
Viscosity							
cSt@40°C	ASTM D445	51.51	64.18	91.3	56.24	68.71	98.78
cSt@100°C	ASTM D445	8.80	10.72	14.82	8.62	10.28	14.36
Viscosity Index	ASTM D2270	150	158	170	128	135	150
Cold Crank Simulator (cP)	ASTM D5293	5,998@-30C	6,363@-30C	6,453@-30C	6,188@-25C	6,619@-25C	6,784@-25C
Base Number (BN), mg KOH/g	ASTM D2896	>13.5	>13.5	>13.5	>13.5	>13.5	>13.5
Flash Point (°C/°F)	ASTM D92	214/417	217/423	221/430	233/451	231/448	228/442
Foaming Tendency - Sequence II	ASTM D892	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Specific Gravity	ASTM D1298	0.870	0.868	0.870	0.878	0.879	0.878
Rust Prevention	ASTM D665	Pass	Pass	Pass	Pass	Pass	Pass
Copper Corrosion Prev. 3hr/24hr	ASTM D130	1a / 1a	1a / 1a	1a / 1a	1a / 1a	1a / 1a	1a / 1a
Pour Point (°C/°F)	ASTM D97	-40/-40	-41/-42	-41/-42	-41/-42	-40/-40	-40/-40
High Temp High Shear Visc, cP	ASTM D5481	2.734	3.257	4.248	2.861	3.178	4.062
MRV Viscosity, cP	ASTM D4684	16,675@-35C	18,480@-35C	21,626@-35C	15,127@-30C	17,175@-30C	19,099@-30C

	Method	SAE 10W-50	SAE 15W-40	SAE 20W-50	SAE 30	SAE 40
Viscosity						
cSt@40°C	ASTM D445	135.1	109.0	186.2	74.8	123.3
cSt@100°C	ASTM D445	19.27	14.36	20.11	10.33	14.38
Viscosity Index	ASTM D2270	163	134	125	122	117
Cold Crank Simulator	ASTM D5293	6,776@-25C	6,268@-20C	9,172@-15C	-	-
Base Number (BN), mg KOH/g	ASTM D2896	>13.5	>13.5	>13.5	>13.5	>13.5
Flash Point (°C/°F)	ASTM D92	224/435	234/453	236/457	235/455	239/462
Foaming Tendency - Sequence II	ASTM D892	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Specific Gravity	ASTM D1298	0.876	0.883	0.890	0.882	0.889
Rust Prevention	ASTM D665	Pass	Pass	Pass	Pass	Pass
Copper Corrosion Prev. 3hr/24hr	ASTM D130	1a / 1a	1a / 1a	1a / 1a	1a / 1a	1a / 1a
Pour Point, (°C/°F)	ASTM D97	-40/-40	-40/-40	-49/-56	-43/-45	-49/-56
High Temp High Shear Visc, cP	ASTM D5481	5.072	4.213	5.468	3.161	4.236
MRV Viscosity, cP	ASTM D4684	22,902@-30C	16,037@-25C	23,417@-20C	-	-

NOTE: Properties above are not a specification, they are typical and may vary.

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