


**AMALIE**

## AMALIE PRO High Performance Synthetic Blend Engine Oils

(05/01/20 edition)

**AMALIE PRO High Performance Synthetic Blend Engine Oils** are formulated to exceed the latest API SP engine oil service category. The SAE grades 5W-20, 5W-30 and 10W-30 exceed the latest requirements for ILSAC GF-6A performance standards. These incorporate a blend of high viscosity index oils, synthetic base stocks, shear stable viscosity modifiers and the latest additive technology. They are specifically formulated for the rigorous environment of gas-direct engine (GDI) and turbo gas-direct engine (TGDI) designs as well as providing increased protection for carbureted or normally fuel injected engines. AMALIE PRO High Performance Synthetic Blend Engine Oils offer improved performance for wear control, oxidative stability, piston cleanliness, and chain wear over previous API and ILSAC oil categories as well as conventionally formulated oils.

Always consult your vehicle's owner's manual when selecting the appropriate viscosity and service grade.

### Benefits:

- Extended Engine Protection in Severe Operating Conditions
- LSPI (Low Speed Pre-Ignition) Protection Throughout the Drain Interval.
- Reduced Oil Thickening & Consumption.
- Superior Wear Protection.
- Enhanced Deposit Control and Engine Cleanliness.

### Typical Physical & Chemical Properties

PRO HP Synthetic Blend	Kinematic Viscosity @ 100°C, cSt	Kinematic Viscosity @ 40°C, cSt	Viscosity Index	Cold Crank Viscosity, cP	Flash Point °C	Pour Point °C
<b>50</b>	17.5	178	107	-	240	-12
<b>70</b>	28.5	358	107	-	260	-12
<b>5W-20</b>	8.5	50	150	6,200 @ (-30°C)	223	-36
<b>5W-30</b>	10.5	65	150	6,400 @ (-30°C)	226	-39
<b>5W-40</b>	14	85	170	6,000 @ (-30°C)	214	-36
<b>5W-50</b>	17.5	109.3	176	6,150 @ (-30°C)	214	-36
<b>10W-30</b>	10.5	71	135	6,200 @ (-25°C)	225	-39
<b>10W-40</b>	14.5	101.2	148	6,600 @ (-25°C)	225	-36
<b>15W-50</b>	17.75	140.4	140	6,600 @ (-20°C)	237	-30
<b>20W-50</b>	18	156.7	128	5,500 @ (-15°C)	220	-36

See Application Chart on Page 2.

### Health and Safety

Safety Data Sheets (SDS) are available on line at [AMALIE.com](http://AMALIE.com) or from your AMALIE Representative.

The data presented herein are believed to be accurate; however, Amalie Oil Company shall not be liable for its content and makes no warranty with respect thereto.  
Amalie Oil Co. • 1601 McCloskey Blvd. • Tampa, FL 33605, U.S.A. • Telephone 813 248-1988 • Fax 813 248-1488 • [info@amalie.com](mailto:info@amalie.com) • [www.amalie.com](http://www.amalie.com)



## AMALIE PRO High Performance Synthetic Blend Engine Oils Application Chart

SPECIFICATIONS	PRO HP SAE 50	PRO HP SAE 70	PRO HP 5W-20	PRO HP 5W-30	PRO HP 5W-40	PRO HP 5W-50	PRO HP 10W-30	PRO HP 10W-40	PRO HP 15W-50	PRO HP 20W-50
<b>API:</b>										
SP, SN / SN Plus, SN, SM	**	**	√	√	√	√	√	√	√	√
CF	*	*	*	*	*	*	*	*	*	*
<b>ILSAC:</b>										
GF-6A, GF-5, GF-4, GF-3	-	-	√	√	-	-	√	-	-	-
<b>Ford:</b>										
M2C 960-A (M2C 945)	-	-	√	-	-	-	-	-	-	-
M2C 961-A (M2C 946)	-	-	-	√	-	-	-	-	-	-
<b>DaimlerChrysler:</b>										
MS 6395K	-	-	√	√	-	-	√	-	-	-
<b>General Motors:</b>										
GM 6094M	-	-	√	√	-	-	√	-	-	-
<b>Toyota</b>	-	-	√	√	-	-	√	-	-	-
<b>Hyundai</b>	-	-	√	√	-	-	√	-	-	-
<b>Kia</b>	-	-	√	√	-	-	√	-	-	-
<b>Nissan</b>	-	-	√	√	-	-	√	-	-	-
<b>Honda</b>	-	-	√	√	-	-	√	-	-	-
CID AA-52039	-	-	√	√	√	√	√	√	√	√
Mil-L-2104-B	-	-	√	√	√	√	√	√	√	√
Mil-L-46152	-	-	√	√	√	√	√	√	√	√

- √ - Exceeds Performance Requirements
- \* - Suitable for use
- \*\* - Suitable for use in API SP and Prior Service Category Applications.

Some OEM Applications are Viscosity Specific. Please Consult your AMALIE Representative.  
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