



SynGold™

Full Synthetic Motor Oil

Paladin® SynGold™ full synthetic motor oils are uniquely designed to help provide outstanding levels of fuel economy performance, cleaning power and engine protection, even during longer oil change intervals. SynGold is proven to significantly reduce wear and viscosity breakdown because of its advancements in oil technology. SynGold's premium mixture of synthetic base fluids and performance additives outperform *all* previous engine oils for protection and durability from wear and viscosity breakdown. SynGold's wide range of viscosity grades fit all types of modern vehicles, including high-performance turbo-charged, supercharged gasoline multi-valve fuel injected engines found in passenger cars, SUVs, light vans and trucks.

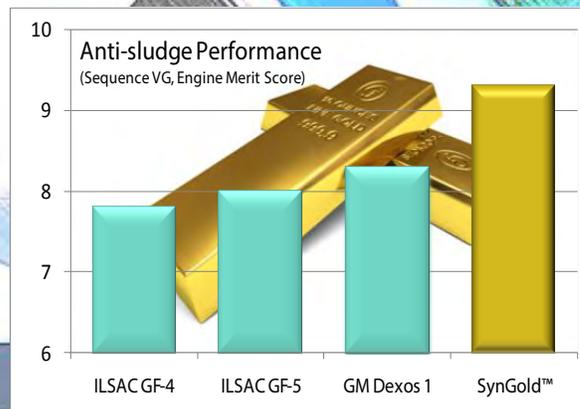


Fuel economy performance in this test is measured for fresh oil (FE1) and aged oil (FE2) versus an industry reference test limits expressed as total (FE1-1 +FE1-2) and retained FE (FE2)

Engine sequence VI-D testing for fuel economy retention clearly demonstrates SynGold's advantage. SynGold 0W grades outperformed the leading brands 5W grade and SynGold's 5W -30 demonstrated no loss in fuel economy because SynGold uses Paladin's proprietary lubricity additive technology proven more durable than other lubricity agents that can degrade within a few thousand miles.

Sludge in gasoline engines is usually a black emulsion made from water, combustion by-products, and oil formed during low-temperature engine operation. Sludge is typically soft, but can polymerize and become a hard substance. It plugs oil lines and screens, and accelerates engine wear and increases emissions.

SynGold's premium sludge control is achieved using highly effective antioxidant and dispersant additives. The antioxidant combats sludge



formation by blocking chemical reactions between combustion by-products, water and oil at low temperature. Although the antioxidant significantly retards sludge formation it cannot stop it completely. No additive can. This is where SynGold's dispersant technology takes over by keeping formed sludge constituents finely dissolved and suspended in the oil away from engine parts.

Benefits include:

- ✦ Excellent wear protection and engine cleanliness at oil temperatures of 400°F, even at longer drain intervals
- ✦ Better fuel economy retention than both API SN Resource Conserving and ILSAC GF-5
- ✦ Helps late models reduce oil consumption and improves fuel economy
- ✦ Exceeds sludge control performance for both ILSAC GF-5 and GM Dexos® 1
- ✦ Protects against varnish deposits and resists thermal viscosity breakdown
- ✦ Recommended oil for gasoline, turbocharged gasoline and E-85 flex-fuel engines
- ✦ Lower pour point pumps fluid faster to moving parts reducing wear during the coldest Winter season
- ✦ Compatible with conventional oils





Paladin[®] SynGold[™] full synthetic motor oils are approved for use in General Motors, Ford and DaimlerChrysler flex-fuel vehicles using either gasoline or E-85. Additional service fill approvals also include Acura, Honda, Infiniti, Isuzu, KIA, Lexus, Mercedes Benz, Mitsubishi, Saturn, Toyota and Volvo cars and light duty trucks. See OEM Manual for Viscosity Recommendation.

Typical Properties

SAE Grade	0W-20	0W-30	5W-20	5W-30
Product Code	4429	4428	4430	4431
MSDS #	100	100	100	100
API Service / ILSAC	SN Resource Conserving / GF-5			
ACEA	A1/B1	A1/A5, B1/B5	A1/B1	A1/A5, B1/B5
General Motors	4718M / 6094M	4718M / 6094M	6094M	dexos [®] 1 / 4718M / 6094M
DaimlerChrysler FFV E-85 Gasoline Specifications	MS-6395	MS-6395	MS-6395	MS-6395
Ford Motor Company	WSS-M2C925-A WSS-M2C930-A	WSS-M2C929-A	WSS-M2C925-A WSS-M2C930-A	WSS-M2C929-A
Gravity API @ 60° F	35.1	35.4	34.1	34.1
Pour Point °F	-44	-44	-42	-42
Flash Point °F	430	430	440	440
cSt @ 100°C	8.5	10.6	9.1	11.3
cSt @ 40°C	44.8	58.4	52.1	67.6
Cold Crank Visc, cP	5,500 @ -35°C	5,500 @ -35°C	5,300 @ -30°C	< 5,900 @ -30°C
Viscosity Index	170	172	155	160
TBN, mg KOH/gm	8.2	8.2	8.2	8.2
Color	Amber	Amber	Amber	Amber

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