# CITGO

# CITGO SUPERGARD® MOTOR OILS

Date 1/09

## **DESCRIPTION:**

CITGO SUPERGARD Motor Oils are premium quality engine oils designed to provide optimum performance in high-output gasoline (including turbocharged and supercharged) engines in passenger cars, vans, sport utility vehicles, and light trucks. The new technology incorporated in this latest-generation lubricant enables it to exceed manufacturers' performance requirements. These engine oils demonstrate improved performance in today's advanced engine designs. CITGO SUPERGARD is available in both single and multigrades. The SAE 5W-20 and SAE 5W-30 are classified as synthetic blends.

### **QUALITIES:**

- Exceed latest SAE low-temperature pumping viscosity requirements.
- · Provide improved performance in foaming control.
- · Provide significantly greater engine cleanliness, wear protection and resistance to oil thickening.
- Protect against varnish buildup and sludge formation on critical engine parts.
- · Control high-temperature deposits in critical ring belt area.
- · Provide maximum protection against rust and corrosion.
- · Meet SAE standards for high-temperature/high-shear rate viscosity.
- Extend engine life by controlling wear and deposit formation.

# SERVICE CATEGORIES:

- All viscosity grades exceed requirements for API SL, SJ and obsolete category SH.
- SAE 5W-20 and SAE 5W-30 are synthetic blends with API SM and ILSAC GF-4.
- SAE 10W-30 Meets the fuel economy requirements and performance requirements of API/Energy Conserving.
- SAE 5W-20 and 5W-30 Meet the performance requirements of Ford WSS-M2C 930-A and M2C929-A respectively.
- SAE 5W-20 Meets the performance requirements of Honda SAE 5W-20 specification.
- SAE 5W-30, 5W-20 Meets the performance requirements of General Motors GM6094M.
- Military CID: A-A-52039 (Commercial Item Description, supercedes MIL-L-46152).

# **APPLICATIONS:**

CITGO SUPERGARD Motor Oils are recommended for passenger cars, sport utility vehicles, and light trucks operating on gasoline. CITGO SUPERGARD Motor Oils are also recommended for use in gasoline engines which have been converted to operate on compressed natural gas (CNG), liquified natural gas (LNG), and liquified petroleum gas (LPG—which includes propane and butane). *Consult the vehicle owner's manual for proper engine lubricant selection.* 

CITGO SUPERGARD 5W-20 is recommended for those engines requiring an SAE 5W-20 viscosity grade.

CITGO SUPERGARD SAE 5W-20 and 5W-30 are synthetic blends incorporating over a high percentage synthetic components and meet the performance requirements for latest gasoline-fueled engine service and display the API Certification Mark. SAE 5W-20, 5W-30, and 10W-30 have also demonstrated benefits in industry accepted fuel economy tests.

**Note:** CITGO SUPERGARD Motor Oils are not recommended for use in diesel engines in passenger cars, vans or light trucks. CITGO CITGARD® Motor Oils are recommended for these applications.

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Date 1/09 - (Continued)

# **TYPICAL PROPERTIES:**

# **CITGO SUPERGARD® MOTOR OILS**

CITGO SUPERGAND MOTOR CIES							
SAE Grade	5W-20	5W-30	10W-30	10W-40	20W-50	30	40
Material Code	620802001	620805001	620813001	620814001	620825001	620903001	620904001
Gravity, ASTM D 4052, °API	32.8	32.6	29.5	29.7	27.9	27.5	27.1
Pounds Per Gallon	7.17	7.18	7.32	7.31	7.39	7.41	7.43
Flash Point, ASTM D 92, COC, °F (°C)	421 (229)	448 (231)	448 (231)	432 (232)	473 (245)	489 (254)	500 (260)
Viscosity:  ASTM D 445, cSt at 40°C  cSt at 100°C  ASTM D 2161, SUS at 100°F  SUS at 210°F	46 8.2 235 53.6	64 10.6 325 62.4	68 10.4 347 61.5	96 13.9 493 75	165 18.0 859 92	110 12.2 576 68	154 15.1 808 80
Viscosity Index, ASTM D 2270	152	157	140	148	121	100	98
Low Temperature Cranking, ASTM D 5293 Temperature, °F (°C) Viscosity, cP	-22 (-30) 5,000	-22 (-30) 6,100	-13 (-25) 5,700	-13 (-25) 5,900	+5 (-15) 7,800	_ _	_ _
Low-Temperature Pumping, ASTM D 4684 Temperature, °F (°C) Viscosity, cP Yield Stress, Pa	-31 (-35) 17,000 None	-31 (-35) 23,000 None	-22 (-30) 29,200 None	-22 (-30) 22,700 None	-4 (-20) 24,400 None	_ _ _	_ _ _
HTHS Rate, ASTM D 4683, Vis cP at 150°C	2.6	3.1	3.0	3.6	4.6	_	_
Color, ASTM D 1500	L3.0	L3.0	L2.5	L2.5	L4.0	L5.5	L6.0
API Service Category API Certification Mark	SM Yes	SM Yes	SM Yes	SM Yes	SL No	SL No	SL No
Energy Conserving	Yes	Yes	Yes	No	No	No	No