

MOTOR OIL GUIDE



API® Certification Mark
"Starburst"

1



API® Service Symbol
"Donut"



API® Service Symbol "Donut"
with CI-4 PLUS

5

API's Service Symbol and Certification Mark identify quality engine oils for gasoline- and diesel-powered vehicles. Oils displaying these marks meet performance requirements set by U.S. and international vehicle and engine manufacturers and the lubricant industry. More than 500 companies worldwide participate in this voluntary program, which is backed by a marketplace sampling and testing program.

1. Starburst: An oil displaying this mark meets the current engine protection standard and fuel economy requirements of the International Lubricant Standardization and Approval Committee (ILSAC), a joint effort of U.S. and Japanese automobile manufacturers. Most automobile manufacturers recommend oils that carry the API Certification Mark.

2. Performance Level:

Gasoline engine oil categories (for cars, vans, and light trucks with gasoline engines): Oils designed for gasoline-engine service fall under API's "S" (Service) categories. See reverse for descriptions of current and obsolete API service categories.

Diesel engine oil categories (for heavy-duty trucks and vehicles with diesel engines): Oils designed for diesel-engine service fall under API's "C" (Commercial) categories. See reverse for descriptions of current and obsolete API service categories.

3. Viscosity Grade: The measure of an oil's thickness and ability to flow at certain temperatures. Vehicle requirements may vary. Follow your vehicle manufacturer's recommendations on SAE oil viscosity grade.

4. Energy Conserving: The "Energy Conserving" designation applies to oils intended for gasoline-engine cars, vans, and light trucks. Widespread use of "Energy Conserving" oils may result in an overall savings of fuel in the vehicle fleet as a whole.

5. CI-4 PLUS: Used in conjunction with API CI-4, the "CI-4 PLUS" designation identifies oils formulated to provide a higher level of protection against soot-related viscosity increase and viscosity loss due to shear in diesel engines. Like Energy Conserving, CI-4 PLUS appears in the lower portion of the API Service Symbol "Donut."

GUIDELINES TO HELP YOU GET MORE FROM YOUR MOTOR OIL

- Refer to your owner's manual for type of oil to use.
- Follow manufacturer's oil change recommendations.
- Use only the recommended API category: "S" for gasoline engines; "C" for diesel engines.
- Select the proper SAE oil viscosity grade.
- If you find it necessary to mix brands of oil, use the same viscosity grade and API service category to maintain performance.
- Properly dispose of used oil. Learn more about recycling used oil on the web at www.recycleoil.org. Go to www.earth911.org for used oil collection center locations.

Look for the API Quality Marks every time you buy motor oil.

Ask for API-licensed oil whenever you have your oil changed.

GUIDE TO SAE VISCOSITY GRADES OF MOTOR OIL FOR PASSENGER CARS

Multigrade oils such as SAE 5W-30 and 10W-30 are widely used because, under all but extremely hot or cold conditions, they are thin enough to flow at low temperatures and thick enough to perform satisfactorily at high temperatures. **Note that vehicle requirements may vary. Follow your vehicle manufacturer's recommendations on SAE oil viscosity grade.**

If lowest expected outdoor temperature is	Typical SAE Viscosity Grades for Passenger Cars
0°C (32°F)	5W-20, 5W-30, 10W-30, 10W-40, 20W-50
-18°C (0°F)	5W-20, 5W-30, 10W-30, 10W-40
Below -18°C (0°F)	5W-20, 5W-30

For more information about API's Engine Oil Program, visit our website at www.api.org/oils.

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Motor Oil Guide

Jicheng Xie



Motor Oil Guide:

Whispering the Secrets of Language: An Emotional Quest through **Motor Oil Guide**

In a digitally-driven world where displays reign supreme and immediate communication drowns out the subtleties of language, the profound strategies and mental nuances concealed within phrases frequently get unheard. However, situated within the pages of **Motor Oil Guide** a captivating fictional treasure blinking with organic thoughts, lies a fantastic quest waiting to be undertaken. Published by a skilled wordsmith, this marvelous opus invites visitors on an introspective journey, softly unraveling the veiled truths and profound influence resonating within the very cloth of each word. Within the mental depths of the emotional evaluation, we can embark upon a genuine exploration of the book's core subjects, dissect its charming writing style, and fail to the effective resonance it evokes serious within the recesses of readers' hearts.

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