



ECOSE® PREMIUM MOTOR OIL

Formulated from highly refined base oils and an advanced, thermally stable additive package designed to meet the lubricating demands and severe operating conditions in today's higher-revving, hotter running engines. These lubricants meet or exceed the latest automotive manufacturer's requirements, including **API Performance Category SP** helping to protect against low-speed pre-ignition in turbocharged gasoline direct-injection engines.

Features and Benefits

- Great low temperature pumpability
- Improved emission system performance
- Good anti-foaming characteristics and shear stability
- Resistance to thermal breakdown at high temperatures
- Excellent protection from engine sludge and varnish deposits
- Excellent anti-wear properties and bearing corrosion protection

Approvals

- API Service Category SP
- Suitable for early models calling for API Service SN Plus, SN, SM, and SJ quality oils

Applications

- Severe duty service such as hauling boats and camping trailers
- Passenger cars, SUVs, and light duty trucks operating on gasoline
- Gasoline engine applications where motor oils of a higher viscosity are desired

Typical Properties

| SAE Grade | Test Method | 10W-40 | 20W-50 | 30 | 40 |
|---|-------------|---------------|---------------|---------------|---------------|
| Product Code | | 530135 | 530137 | 530163 | 530164 |
| API Gravity, 60°F | ASTM D-4052 | 31.9 | 30.0 | 30.2 | 29.4 |
| Density, lbs/gal (g/L) | Calculated | 7.21 | 7.29 | 7.28 | 7.32 |
| Kinematic Viscosity, cSt @ 40°C, D-445 | ASTM D-445 | 112.0 | 155.0 | 89.5 | 130.0 |
| Kinematic Viscosity, cSt @ 100°C, D-445 | ASTM D-445 | 15.5 | 18.7 | 11.1 | 14.3 |
| Viscosity Index, calculated | ASTM D-2270 | 146 | 136 | 110 | 109 |
| Cold Cranking @ temp (°C) ,cP | ASTM D-5293 | 6300 @ -25 | 6,000 @-15 | N/A | N/A |
| Color | ASTM D-1500 | L3.5 | L3.5 | L3.5 | L3.5 |
| Pour Point, (°F) | ASTM D-5949 | -33 | -22 | -11 | -7 |
| Flash Point, COC, (°F) | ASTM D-92 | 458 | 470 | 465 | 465 |
| Highest API Performance | | SP | SP | SP | SP |

**Note: Values shown are typical only and do not constitute a specification. Minor variations in product are to be expected in normal manufacturing. Always confirm with the OEM for proper equipment operating requirements.*

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