



HD ENGINE OILS

Meets API Service Categories SL, SJ

High Performance, High Detergent

Meets Car Manufacturers Warranty Requirements for Gasoline Engines where API SL oils are specified.

PRODUCT DESCRIPTION

FormulaShell® SAE 30 and SAE 40 single grade motor oil meet or exceeds all automobile and light duty truck requirements for gasoline and turbocharged engines. FormulaShell® SAE 30 and SAE 40 provides excellent wear protection where climate and engine temperature do not vary widely. FormulaShell® SAE 30 and SAE 40 is especially recommended for high temperature and heavy duty, severe type service such as hauling boats and camping trailers at sustained high speeds. Meets API Service Classification SL and can be used in place of SJ, SH, and SG rated oils. Follow manufacturer's recommendations for viscosity grade and API Service Category.

PRECAUTIONS

The petroleum hydrocarbons used in this product have been severely hydrotreated and/or solvent refined and are considered non-hazardous under current OSHA regulations. Good hygiene, which includes regular washing of skin with soap and water and frequent changing of soiled clothing, should be used to avoid possible irritation and/or dermatitis. The formation of oil mists should be avoided. Note that used motor oil, that is oil which has been exposed to the very high temperatures of internal combustion engines, tends to contain higher amounts of aromatics, which have been linked to skin cancer in certain laboratory studies.

WARNING

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to the heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

TEST	TYPICAL RESULTS	
SAE Viscosity Grade	30	40
API Gravity	27.7	27.8
Viscosity, cSt, 40°C	94.2	134.5
Viscosity, cSt, 100°C (SUS)	11.0 (470)	14.0 (680)
Viscosity Index	101	102
Flash Point, COC, °C (°F)	218 (425)	224 (435)
Fire , °C(°F)	238 (460)	243 (470)
Pour Point, °C (°F)	-18 (0)	-12 (+10)
Material Number		
12/1 quart	5020612031	5020712031