

Cat[®] DEO SYN[™]

Full Synthetic diesel engine oil.

SAE 5W-40



Recommended Use

- Cat earthmoving, commercial, marine and on-highway truck diesel engines*
- Low-emission diesel engines including Cat engines with ACERT[®] Technology
- Heavy-duty diesel engines made by other manufacturers that recommend an API CI-4, CH-4 or CG-4 classification oil (See "Typical Characteristics" on page 2 for more information)
- Automotive gasoline engines that require American Petroleum Institute (API) SL classification oils

* Excluding 3600, 3116 and 3126 MUI Marine and MaK diesel engines. The 3116 and 3126 MUI Marine diesel engines with closed crankcase ventilation systems should use Cat SAE[®]™.

Discover the Difference

Cat DEO SYN is developed, tested and approved by Caterpillar to meet the same high standards as Genuine Cat Parts.

Excellent Cold-Weather Operation—Allows cold start-ups at temperatures as low as -30°C (-22°F) without loss of flow to critical engine parts.

Extended Drain Intervals—Extends oil drain intervals while providing excellent engine protection and performance when used in conjunction with our S•O•SSM Services oil analysis program.

Increased Fuel Economy—Reduces friction on internal engine parts.

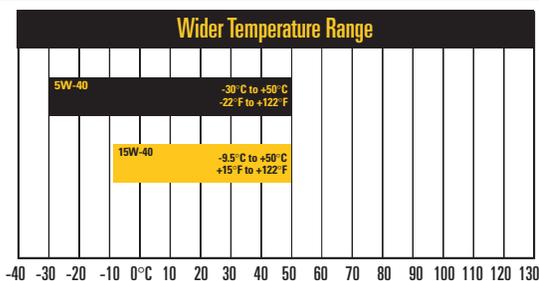
Caterpillar. The difference counts.™

Cat Dealers define world-class product support. We offer you the right parts and service solutions, when and where you need them.

The Cat Dealer network of highly trained experts keeps your entire fleet up and running to maximize your equipment investment.

CATERPILLAR[®]

Cat DEO SYN



While Cat DEO SYN 5W-40 has the same high-temperature range as most SAE 15W-40 oils, its unique synthetic polyalphaolefin (PAO) molecular structure and higher viscosity index provide a better protective film at high temperatures. It also remains fluid at subzero temperatures and provides rapid cold-engine start-ups at ambient temperatures down to -30°C (-22°F).

Typical Characteristics*

SAE Viscosity Grade	5W-40
API Service Classification	CI-4PLUS**, CI-4, CH-4, CG-4, CF, SL
OEM Performance Levels	
Cummins	71/76/77/78
Mack	EO-NPP '03, EO-M Plus
MB	228.3
Volvo	VDS-3
Caterpillar	ECF-1
ACEA	E5/E4
Gravity, API	34.1
Specific	0.85
Pour Point, °C (°F)	-45 (-49)
Flash Point, °C (°F) (ASTM D92)	226 (437)
Viscosity	
cSt @ 40°C	95.0
cSt @ 100°C	14.8
SUS @ 100°F	440.0
SUS @ 210°F	77.9
Viscosity Index	151
Zinc, % wt. (ASTM D4951)	0.146
Sulfated Ash, % wt.	1.35
TBN (ASTM D2896)	12.0

* The values shown are typical values and should not be used as quality control parameters to either accept or reject product. Specifications are subject to change without notice.

** For North America.

Advanced formula. Maximum performance and protection.

Cat DEO SYN 5W-40 contains a blend of synthetic PAO ingredients and additives that provide outstanding high-temperature detergency and all-temperature dispersancy, along with optimum resistance to thermal degradation and oxidation, wear and corrosion. It is balanced to provide optimum engine life in both highly loaded, thermally stressed engines and units operating at lower speeds with frequent starts and stops.

S•O•S Services for early problem detection

Protect your investment with Cat S•O•S oil analysis, the ultimate detection and diagnostic tool for your equipment. S•O•S helps you detect potential problems before they can lead to major failures and costly unscheduled downtime.

Cat Filters: Complete protection for your machine

Combine Cat Fluids with Cat Filters for the highest level of contamination control and protection for your machine. We recommend Cat Filters for all Cat machine applications.

Health and Safety

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. Read and understand the Material Safety Data Sheet (MSDS) before using this product. For a copy of the MSDS, contact us or visit the web at www.catmsds.com.

CATERPILLAR®