

# Cat<sup>®</sup> Fluids - Oils



## Recommended Use

Cat<sup>®</sup> Oils are genuine Cat parts that have been developed and tested to provide the full performance and service life that has been designed and built into Cat machines and engines. Cat Oils provide superior system protection and are required to pass multiple industry tests as well as various proprietary testing. This provides a consistent source of high performance fluids for Cat dealers and customers that exceed industry fluid standards and are updated along with machine and engine design changes.<sup>2</sup>















<sup>1</sup> Some products may not be available in certain countries

<sup>2</sup> Please reference the OMM or SEBU 6250 guide for further information



# Cat® Fluids - Oils

		Use
<b>DIESEL ENGINE OIL</b>		
Cat DEO Cold Weather SAE 0W-40		Fully-synthetic engine oil specially developed for and tested in Cat engines. Used in ambient temperature ranges of -40°C to +40°C. Cat DEO Cold Weather exceeds the performance requirements of Cat ECF-3 (Engine Crankcase Fluid Specification) and the API CJ-4 and API SM categories. It supports consistent emissions performance in engines equipped with aftertreatment devices which can include Diesel Particulate Filters (DPF), Diesel Oxidation Catalyst (DOC), Selective Catalytic Reduction (SCR), and/or Lean NOx Trap (LNT). Designed to meet: 2007/2010 On-Highway exhaust emissions standards (USA), Tier 4 (USA), Stage IIIB/IV (EU) and Step 4 (Japan)
Cat DEO ULS 10W-30		Cat® DEO-ULSTM is the highest quality diesel engine oil for Caterpillar® on- and off-highway engines equipped with aftertreatment systems (On-Highway 2007/2010 and Off-Highway Tier 4, Stage IIIB/IV, Step 4), as well as, diesel engines without aftertreatment and automotive gasoline engines. Cat DEO-ULS exceeds the performance requirements of Caterpillar ECF-3 (Engine Crankcase Fluid Specification) and the API CJ-4 and API SM categories.
Cat DEO-ULS 15W-40		
Cat DEO 10W-30		Especially developed for and tested in Cat engines. Oil change intervals of up to 500 hours are possible with use of S•O•S <sup>SM</sup> Services and Cat Oil Filters. Used in ambient temperature ranges of -18°C to 40°C.
Cat DEO 15W-40		Especially developed for and tested in Cat engines. Oil change intervals of up to 500 hours are possible with use of S•O•S <sup>SM</sup> Services and Cat Oil Filters. Used in ambient temperature ranges of -9.5°C to 50°C.
Cat DEO 40		Cat DEO Monograde is recommended for older Cat engines equipped with precombustion fuel injection systems that permit the use of American Petroleum Institute CD or CF oil.
Cat SAE SAE 30		Developed for use in Cat 3116 and 3126 MUI Marine Engines.
Cat SAE SAE 40		
<b>NATURAL GAS ENGINE</b>		
Cat NGE0 Advanced 40 Natural Gas Engine Oil		Specifically developed for and tested in Cat Natural Gas Engines. Extended oil drain intervals can be seen with use of Cat S•O•S <sup>SM</sup> Services and Cat Oil Filters.
Cat NGE0 SAE 40 Natural Gas Engine Oil		Specifically formulated for and tested in Cat Natural Gas Engines.
<b>HYDRAULIC OIL</b>		
Cat HYDO Advanced 10		This oil is a combination of premium additives and high quality base oils that is designed to provide extended drain intervals and extra protection to hydraulic system components. It can also be used for hydrostatic operation and complies with Vickers 35VQ25. Use in ambient temperature ranges of: -20C to 40C.
Cat HYDO Advanced 30		This oil is a combination of premium additives and high quality base oils that is designed to provide extended drain intervals and extra protection to hydraulic system components. It can also be used for hydrostatic operation and complies with Vickers 35VQ25. Use in ambient temperature ranges of: 10C to 50C.
Cat BIO HYDO Advanced		An environmentally friendly hydraulic fluid that performs like a standard mineral-based oil for use in eco-sensitive areas
<b>TRANSMISSION OIL</b>		
Cat TDTO SAE 10W		Designed for use in power shift transmission, axles and final drives, and wet brakes.
Cat TDTO SAE 30		
Cat TDTO SAE 50		
Cat TDTO Cold Weather 0W-20		A synthetic blend that provides outstanding protection and performance in transmissions, torque converters, final drives, hydraulics, and wet brakes in cold weather operation of Cat equipment.
Cat TDTO TMS		Designed for use in Cat transmissions, wet brakes, and hydraulic compartments that must operate in wide temperature ranges.
<b>AXLE OIL &amp; FINAL DRIVE OIL</b>		
Cat FDAO 60 Cat FDAO SYN		Designed for use in front drive, differential, axle drives of off-highway trucks, large bulldozers, pipelayers, and where FD-1 oil is specified.
Cat MTO		Recommended for older Cat Backhoe Loader rear axles and Cat Challenger Tractors. Cat MTO can also be used in Cat components, most Cat Hydraulic Systems and systems recommending multipurpose tractor fluid that meet Ford/New Holland M2C134D specification.
<b>GEAR OIL</b>		
Cat GO 80W-90		Multigrade gear oil for differential and axle drive on Cat scrapers, wheel type excavators, and where API GL-5 oil is specified.
Cat GO 85W-140		

Characteristics	Specifications	Container	Part
A fully synthetic high performance engine oil (PAO base) that can improve fuel economy. Designed with an extremely stable formula tailored to provide long-lasting engine protection over a wide temperature range, well suited for mixed fleets of new and old machines.	Cat ECF-3 / API CJ-4, Cat ECF-2 / CI-4 PLUS/CI-4, Cat ECF-1-a/ CH-4; Gasoline: SM, Cummins CES 20081, Mack EO-N PP '03	4 L 20 L 205 L Bulk L	361-0923 347-8469 347-8470 347-8471
A special Ultra Low Sulfur SAE 10W-30 Contains an advanced additive package that improves protection of the engine and the Diesel Particulate Filter (DPF).	API Diesel Groups CJ-4, CI-4 PLUS/CI-4, CH-4, CG-4, CF-4/CF. API Gasoline Groups SM/SL OEM Performance Level Caterpillar - ECF-3 / Volvo - VDS-4 / DDC - PGOS 93K218 / Cummins - CES 20081 / Mack - EO-O Premium Plus / ACEA - E9-08/E7-04 / MAN - M3275 / DETZ - DQC 11-05	Bulk 1000 208 20 4	346-0465 376-4782 317-3085 308-1476 378-8296
A special Ultra Low Sulfur SAE 15W-40 Contains an advanced additive package that improves protection of the engine and the Diesel Particulate Filter (DPF).		Bulk 1000 208 20 4	349-2581 376-3781 301-2233 300-7915 378-6535
A special formulation of high performance SAE 10W-30 diesel engine oil developed for Cat engines.	Cat ECF-2, API CI-4/CH-4/SL, Cummins CES 20071/76, Mack EO-M Plus, Volvo VDS-2	Bulk 1000 208 20 5	5P-2586 148-3539 3E9707 3E9844 335-9830
A special formulation of high performance SAE 15W-40 diesel engine oil developed for Cat engines.	Cat ECF-2, API CI-4/CH-4/SL, ACEA E5/B3/A2, Cummins CES 20071/72/76/77, Mack EO-M Plus, MB 228.3, MAN M3275, Volvo VDS-3, RVI RLD	Bulk 1000 208 20 4	8T-9548 3E-9838 3E-9840 3E-9848 3E-9902
The large-bore, medium-speed Cat 3600 engines require oils that meet a unique standard not defined by any industry classification. Cat DEO Mono-grade meets that proprietary Caterpillar standard.	API CF	208L	9X-6463
A single grade engine oil specially developed for 3116 and 3126 Marine Engines.	API CF-4, CF-2, CF/ SJ	20 L 208 L  20 L 208 L	9X-6462 9X-6463  7X-7840 7X-7843
A special blend of the highest quality base stock and additives to meet the demanding environment of natural gas engines.	Not applicable to Natural Gas Engine Oil	Bulk 208 20	331-7032 331-7031 331-7030
Formulated as a low ash, low phosphorous economical engine oil for natural gas engine applications.	Not applicable to Natural Gas Engine Oil	208 L	105-3336
Cat HYD0 provides better wear protection, a wider operating temperature range, longer drain interval, lowering owning and operating cost. It also reduces filter plugging and improves contamination control due to better filtration.	SAE 10, Vickers 35VQ25  SAE 30, Vickers 35VQ25	Bulk 1000 208 20 5  208 20	314-5169 309-6937 309-6938 309-6942 309-6945  319-5923 319-5921
Non-toxic formulation that is readily biodegradable	Cat BF-2	208 20	143-3220 143-3219
Apart from TO-4, TDTO has passed five other internal Cat tests and has proven its enormous capabilities in field tests. Combination of friction and anti-wear properties ensures high load carrying capacity and longer clutch, gear, and bearing service life.	Cat TO-4, Vickers 35VQ25, Allison C-4  Cat TO-4, Allison C-4  Cat TO-4  Cat TO-4, Allison C-4, Komatsu Micro-Clutch, Vickers 35VQ25  Cat TO-4 and TO-4M, Allison C-4	Bulk 1000 208 20  Bulk 1000 208 20 5  Bulk 1000 208 20 5  205 20  208 20L	3P0659 166-0393 103-2528 7X7852  2P9869 7X7611 9X6466 7X7855 9X6467  5P1228 7X7612 3E9478 7X7858 9X8443  228-6070 228-6069  154-0197 154-0196
FDAO will significantly increase bearing life and is capable of doubling oil change intervals when compared to TDTO in certain compartments.	Cat FD-1	1000 208 20	221-3445 184-8056 184-8055
Cat MTO improves braking and clutching, lowering maintenance costs, cold-weather operation, simplifying maintenance, and giving long-lasting performance.	API GL-4, CNH MAT3525, Ford New Holland FNHA-2-C-201.00, Kubota UDT, Volvo WB 101/BM, Agco Powerfluid 821 XL, Allison C4 (Agriculture Applications Only), Denison HF-0/HF-1/HF-2 (T5D & P46), Ford ESN-M2C 134 D, JI Case MS 1204-07/09, John Deere JMD J20C, Massey Ferguson MF 1135/1141, Vickers 35VQ25	208 20 5	120-5286 109-4395 172-6894
Provides excellent protection against wear and scoring which can be caused by high speeds and high loads on the tooth profile. Does not meet Cat TO-4 – thus not suitable for components which must be filled with TO-4 oil.	API GL-5 API GL-5, MT-1	208 20 5  20 L 208 L	9X6469 7X7867 9X6470  7X-7617 161-1246





## **S•O•S<sup>SM</sup> 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 resulting in costly and unscheduled downtime.

## **Cat Filters: Complete protection for your engine**

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, visit us on the web at [www.catmsds.com](http://www.catmsds.com).

## **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 can help you maximize your equipment investment.

