

CAT® FILTERS, FLUIDS AND S-O-SSM FLUID ANALYSIS

CAT FLUIDS



PROVEN PERFORMANCE AND PROTECTION

SYSTEM RUNS CLEANER

EXTENDED COMPONENT & MACHINE LIFE

CAT SYSTEM APPROACH



CAT FLUIDS

PROVEN PERFORMANCE AND PROTECTION

SYSTEM RUNS CLEANER

Cat Fluids exceed industry standards in both quality control and performance testing, enhancing the health of your Cat equipment and components. Experts in fluid formulation collaborate with component engineers to tailor the fluids' properties, including friction thresholds, working temperatures, air release points, viscosity, and seal swelling. The fluids are designed to meet rigorous specifications and undergo extensive testing, from labs to field trials.

EXTENDED COMPONENT & MACHINE LIFE

Cat Fluids offer extended oil drains, less unplanned downtime, and longer component life. These advantages can help you save in owning and operating expenses. Using Cat Fluids is the best way to safeguard your investment in your high-performing Cat equipment.

SYSTEM APPROACH

Designed with the entire system in mind, Cat Fluids reduce wear and protect the critical components of your machine. Provides lowest total cost of ownership when used in conjunction with other Cat® filters, Cat fluids, and Cat S-O-S.

WHAT MAKES CAT FLUIDS BETTER THAN THE COMPETITION?

- + Cat fluids are designed as part of the Cat system, providing increased performance and reliability to your equipment. With rigorous standards, quality testing, and experts in the field weighing in on the fluid designs, Cat fluids will last longer and extend drain intervals. This means that your system runs cleaner, your machine performs better, and your components last longer.



Cat Oils exceed industry specifications and undergo rigorous tests to offer consistent high performance in your equipment. They're available for every application and environment. They resist oxidation, prevent build-up, and maintain proper viscosity which is vital to enhanced component life.

Cat Oils provide the lowest total cost of ownership when used in conjunction with Cat Filters and Cat S-O-SSM, as part of a system solution.

Our Oils are designed to provide you with increased performance and extended engine life. They are specially formulated to reduce wear on bearings, piston rings, bushings, and other valve train components, which can help your engine run longer. They are formulated with premium base stocks and additives.

Using Cat Oils will improve the performance and efficiency of your engine, as well as extend its life. This is because the formulation of Cat oil includes detergents that effectively reduce buildup in your engine, including piston land deposits that can compromise combustion and shorten engine life. On average, Cat oil reduces piston land deposits and total deposits by 15%, which is impressive. If you're looking to keep your engine running in top condition, Cat oil is the right choice.

You can have confidence knowing that Cat Oils have been designed to meet the highest standards of protection and performance. They provide slower oil degradation, allowing you to get the most out of your engine with longer drain intervals when used with S-O-S Fluid Analysis. With increased durability and engine protection, you can expect less maintenance and reduced downtime, leading to increased productivity and a longer life for your engine.

TYPES OF CAT® OILS:

- + Diesel Engine Oil (DEO™)
- + Natural Gas Engine Oil (NGEO™)
- + Transmission & Drive Train Oil (TDTO™/TDTO-TMS™/TDTO Cold Weather)
- + Final Drive and Axle Oil (FDAO™/FDAO SYN)
- + Hydraulic Oil (HYDO™ Advanced/Bio Hydo Advanced)
- + Specialty Oils

SAVE MONEY AND EXTEND OIL DRAINS

Your Cat dealer will work with you to optimize the oil change intervals for your Cat engines. Determining new oil change intervals is a complex process that necessitates close cooperation with your dealer for a few months. After the new intervals have been established, it will be crucial to keep a close eye on oil performance and engine wear. Use S-O-S Services for both oil and coolant analysis, to make sure there are not any problems.

EXTEND OIL DRAIN INTERVALS

We suggest you proceed beyond the manufacturer's recommended oil change interval cautiously. First, select a target oil drain interval that is realistic and fits your maintenance schedule. A reasonable target is 1.5 times your current oil drain. Extend to the target interval in 100 hour increments. Sample every 100 hours, analyze the results, and plot the trends. If oil sample results remain acceptable, proceed toward the target oil drain. Repeat this process for at least two oil drains at the target oil drain interval.

For example: Target oil drain interval = 500 hours

	250 HOURS	350 HOURS	450 HOURS	500 HOURS	CONCLUSION
SCENARIO 1	Sample. If good results, proceed toward the target oil drain interval.	Sample. If good results, proceed toward the target oil drain interval.	Sample. If good results, proceed toward the target oil drain interval.	Sample. If good results, you've reached your target oil drain interval.	Now you can safely move from 250 hour interval to 500 hours.
SCENARIO 2	Sample. If good results, proceed toward the target oil drain interval.	Sample. If good results, proceed toward the target oil drain interval.	Sample. If unusual results, stop.		Work with your dealer and Cat S-O-S Services to understand your unusual results. Once addressed, you can try this process again.

FOUR TYPES OF OIL SAMPLES

To evaluate the interval for an oil change, four types of oil samples are typically involved as follows:

+ SAMPLES OF NEW OIL

A sample of new oil is needed as a test reference to the used oil. The new oil must be the exact same oil as the used oil being tested. Any time a new shipment of oil is received, a best practice is to take a sample to monitor the characteristics and cleanliness.

+ BASELINE SAMPLES

After changing the oil and filter, run the engine until it reaches operating temperature (about 15 minutes) and take a sample. This determines wear metal carryover from any oil left in the pan from the previous interval. It also reveals if any external contaminants were introduced through the oil fill process. During the evaluation period, take a baseline sample after every oil change.

+ SAMPLES AT INTERMEDIATE INTERVALS

Taking samples at less than the recommended oil change interval is essential to monitoring the oil degradation process. This will allow you to determine a trend line for wear accumulation and any external contamination entry.

+ SAMPLES AT OIL CHANGE

Test results from the samples taken at the time of each oil change will indicate the final levels of oil degradation and wear accumulation. These results, along with the intermediate interval sample results will be evaluated to establish the optimal oil change interval for your engine. Once the optimal interval has been established, submit a sample at each oil change, and a sample at one-half the oil change.

PROCEED WITH CAUTION!

We suggest that when evaluating engines with a 500-hour recommended oil change you move forward cautiously. Some applications and conditions may allow for oil drain interval extensions, but some extreme applications and conditions may require more frequent oil changes.

FIND THE RIGHT FORMULA



CAT DIESEL ENGINE OILS*

	CAT DEO™	CAT DEO-ULS™	CAT DEO™ COLD WEATHER
	Industry-leading engine oil technology that provides exceptional engine protection and oil life. Trusted by Caterpillar and Cat engine customers worldwide to keep engines running at peak performance for the life of the engine.	The most advanced Cat engine oil technology. Compatible with the latest engine aftertreatment technology while delivering the highest level of engine protection available.	Similar performance as DEO-ULS, but the fully synthetic formulation keeps engine oil flowing even in the most severe cold weather conditions.
	WHEN TO USE	WHEN TO USE	WHEN TO USE
AFTERMARKET SYSTEM	Engine emissions technology in use is Tier 3 / Stage IIIA or lower.	Engine emissions technology in use is Tier 4 Interim / Stage IIIB or higher.** <i>**Can be used for engines of prior emissions tiers.</i>	Temperatures on your job dip below -18° C (0° F). Suitable for use in all engine emissions tiers. <i>**Can be used for engines of prior emissions tiers.</i>
ENGINE TIER	The engine has no aftertreatment system or when aftertreatment does not include a Diesel Particulate Filter (DPF).	The engine is equipped with a Diesel Particulate Filter (DPF).	The engine is equipped with a Diesel Particulate Filter (DPF).
MAXIMIZE DOLLARS	Maximize your investment with Cat Filters and Fluids. Talk to your dealer about Cat S-O-S Fluid Analysis.		

* We offer a range of specialty oils like DEO-ULS SYN.

CAT NATURAL GAS ENGINE OILS (NGEO™)

Formulated for engines using gaseous fuel. Cat natural gas engine oils provide optimum engine and oil life in natural gas applications.

CAT NGEO™	CAT NGEO EL350™	NGEO™ ADVANCED 40	NGEO™ ULTRA 40	CAT NGEO™ SYN HP	CAT NGEO™ SPECIAL APPLICATION
Engine oil for natural gas applications and other engines requiring low ash oil performance for the life of the engine.	Engine oil for natural gas applications and other engines requiring low ash oil performance for the life of the engine.	Engine oil for natural gas engines requiring low ash oil.	Engine oil for natural gas engines requiring low ash oil SAE 40.	Engine oil for natural gas high performance engines.	Engine oil for natural gas engines operating in biogas, landfill, coal mine and wellhead applications.
Compatible with exhaust catalyst applications that require a low-phosphorus oil.	Compatible with exhaust catalyst applications that require a low-phosphorus oil. Compatible with "lean burn" engines requiring low-ash oil.		Compatible with exhaust catalyst applications that require a low-phosphorus oil. Compatible with "lean burn" engines requiring low-ash oil.	Compatible with G3500 high power density engines used for load management in Standby applications and Continuous duty applications.	
Provides optimum engine and oil life with low-sulfur gaseous fuels that contain less than 0.43 mg hydrogen sulfide per mega Joule (0.35 mg hydrogen sulfide per BTU).	Provides optimum engine and oil life with low-sulfur gaseous fuels that contain less than 0.43 mg hydrogen per mega Joule (0.35 mg hydrogen sulfide per BTU).	Engine oil for natural gas engines requiring low ash oil.	Compatible with exhaust catalyst applications that require a low-phosphorus oil. Compatible with "lean burn" engines requiring low-ash oil.	This oil requires specialized filters compatible with synthetic base stock oils. These filters are available through your Cat dealer. When switching to Cat NGEO SYN HP, it is required to flush the engine to under 3% in volume in order to reduce cross contamination. Elastomers and other components may need to be replaced before using Cat NGEO SYN to ensure total compatibility.	This oil is specifically designed to limit carbon formation on pistons, reduce wear on internal components and neutralize severe acids. Gas engines operating with fuel containing corrosive materials such as TOH (Total Organic Halides) including fluoride and chloride, and hydrogen sulfide (H2 S).
	May be used in engines that use high-sulfur gas, provided that shorter drain intervals are employed.	May be used in engines that use high-sulfur gas, provided that shorter drain intervals are followed according to S-O-S trend analysis.	May be used in engines that use high-sulfur gas, provided that shorter drain intervals are employed.		



CAT TRANSMISSION AND DRIVE TRAIN OILS

Cat Transmission and Drive Train Oils are run through five Caterpillar quality tests and thousands of hours in the field. Formulated to meet the most stringent standards, it's the best fluid protection for any drive train.

- + Cat TDTO™
- + Cat TDTO-TMS™
- + Cat FDAO™
- + Cat FDAO SYN™



	CAT TDTO™	CAT TDTO-TMS™	CAT TDTO COLD WEATHER	CAT FDAO™	CAT FDAO SYN™
	Transmission and drive train oil for transmissions, wet Brakes, and final drives.	Multiseason transmission and drive train oil for transmissions, wet brakes, and final drives.	A synthetic lubricant blend that provides superior performance and protection in transmissions, torque converters, final drives, hydraulics, and/or wet brakes. The special formulation creates optimal friction performance and controls transmission slippage while eliminating clutch glazing.	Final drive axle oil for front wheels, differentials, final drives of off-highway trucks, and final drives of large track-type tractors. FDAO allows for extended drain intervals in these systems.	A fully synthetic final drive axle oil for front wheels, differentials, and final drives of off-highway trucks and final drives of large track-type tractors. FDAO SYN allows for extended drain intervals in these systems and is designed for high production applications, where uptime is critical.
	WHEN TO USE	WHEN TO USE	WHEN TO USE	WHEN TO USE	WHEN TO USE
DRAIN INTERVALS	Seeking up to 2,000 hours between drain intervals.*	Up to 2,000 hours between drain intervals.*	The outstanding thermal stability and oxidation resistance gives long drain intervals.	Extending the drain interval in these systems – up to 4,000 hours of operation.*	Extending the drain interval in these systems – up to 8,000 hours of operation.*
TEMPERATURE CONDITIONS	Wide temperature variations are not expected on your job.	Utilizing a single fluid capable of operating through wide temperature ranges, including the elimination of costly seasonal fluid changes.	Operating at temperatures down to -40°F (-40°C).	Operating across the widest temperature range.	Operating across the widest temperature range.

	CAT SATO™	CAT GO™	CAT MTO™
	Special Application Oil (SATO) SATO is a multi-grade, semi-synthetic oil approved for factory fill as well as service fill for all Medium Wheel Loaders (MWL).	Cat GO is a multi-grade API GL-5 classification gear oil intended for extreme pressure applications, such as differentials, final drives, and manual transmissions.	Recommended for older Cat® Backhoe Loader rear axles and Cat Challenger™ Tractors.
	WHEN TO USE	WHEN TO USE	WHEN TO USE
DRAIN INTERVALS	Drain interval for Powershift transmissions is 2000 hrs vs 1000 hrs with TDTO 10 or 30.		Offers high thermal stability and oxidation resistance for long service life in severe applications.
TEMPERATURE CONDITIONS	Superior performance over a wide temperature range.	Wide Temperature Range—Provides excellent stability at high temperatures and superior performance at low temperatures for easier start-ups.	Can be used in temperatures as low as -13°F (-25°C).

* Intervals can be extended with the use of Cat filters, Cat fluids and S-O-S. See instructions for safely extending drains on page 4.

CAT HYDRAULIC OILS

Cat Hydraulic Oils are for premium hydraulic system protection and efficiency for most applications. Our hydraulic oils support less maintenance and more uptime with 6,000-hour drain intervals when used in conjunction with Cat S-O-SSM Fluid Analysis. Cat Multi-Purpose Tractor Oil, Gear Oil and other specialty oils provide protection in specialized applications.

CAT HYDO™ ADVANCED	CAT BIO HYDO™ ADVANCED	CAT MTO
The most advanced hydraulic oil on the market. Our exclusive additive package is unequaled in minimizing wear, reducing corrosion, and eliminating water damage – all the while, providing up to three times the drain interval of standard hydraulic oils.* It's a formula designed to save you time and money.	Cat Bio HYDO(TM) Advanced is a synthetic ester based hydraulic fluid with >90% bio-based content (per ASTM D6866 test method). It has the drain interval of premium mineral-based oil. Developed for use in a wide range of applications and conditions, Cat Bio HYDO Advanced provides superior performance across a wide temperature range (-22 degrees F (-30 deg celcius) to 113 deg F (45 deg C)). Example applications include: construction, forestry, dredging, ports, tunnel boring.	Our multipurpose transmission and hydraulic oil are designed to meet the needs of your Cat hydraulic system.
WHEN TO USE	WHEN TO USE	WHEN TO USE
Extending drain intervals up to 6,000 hours is valued.*	Even during severe applications, Cat Bio HYDO Advanced can be taken up to 6,000 hours with S-O-S SM Fluid Analysis.*	Changing hydraulic oil every 2,000 hours is acceptable.*
The lowest total operating cost is desired.	When machine operation environments require biodegradable fluids.	The lowest initial purchase price is desired.

* Intervals can be extended with the use of Cat filters, Cat fluids and S-O-S. See instructions for safely extending drains on page 4.



CAT GREASES*

Cat Greases are made to protect your equipment in tough conditions. They reduce galling and scarring, prevent seizing, and resist corrosion and washout. With unique thickener and additive blends, Cat Greases provide superior protection for even the most extreme environments. They keep your equipment running smoothly and reliably. Cat Greases resist softening, provide enhanced lubrication, and protect parts from wear, thanks to their special formulas. They also prevent oxidation and rust on metal. They will not corrode or damage steel, copper-bearing alloys, or conventional seal materials.

LITHIUM COMPLEX THICKENER	CALCIUM SULFONATE THICKENER
Cat Utility Grease + NLGI 2 + General Purpose Product – where solid additives are not required + Corrosion Protection – resists oxidation and protects metal against rust + For low speed and low load applications where operating temperatures are between (-20°C to +140°C (-4°F to +284°F)) + Low-load, low-speed applications, resists softening, and protects parts from wear	Cat Extreme Application Grease 1 + NLGI 1 + Extreme Pressure - 5% Moly added for extreme impact and wear resistance + Moisture Resistance – resists washout from fresh and saltwater + Performs and protects where operating temperatures are between -20°C to +140°C (-4°F to +284°F) + Best for auto-lube systems
Cat Prime Application Grease + NLGI 2 + Reduced Component Wear – resists softening and protects parts for optimal life + Extreme Pressure – enhanced with 3% Moly for moderate loads + Long life – for applications where speed, loads and temperature are moderate + Performs and protects where operating temperatures are between -20°C to +140°C (-4°F to +284°F) + Standard factory-fill for most equipment	Cat Extreme Application Grease 2 + NLGI 2 + Extreme Pressure – 5% Moly added for extreme impact and wear resistance + Moisture Resistance – resists washout from fresh and saltwater + Performs and protects where operating temperatures are between -15°C to +140°C (+5°F to +284°F) + Designed for high-load, extreme-pressure oscillating joints
Cat Extreme Application Grease – Arctic + NLGI 0 + Extreme-Cold Operation – pumps and protects where operating temperatures are between -50°C to +130°C (-58°F to +266°F) + Extreme Pressure - 5% Moly for exceptional heavy duty performance + Semi-synthetic base oil + Extreme cold	Cat Extreme Application Grease – Desert + NLGI 2 + Extreme-Heat Operation – performs and protects where operating temperatures are between -10°C to +140°C (+14°F to +284°F) + Extreme Pressure - 5% Moly for exceptionally heavy-duty performance + Mineral base oil + High temperatures
Cat Ball Bearing Grease + NLGI 2 + Lubricates ball and roller bearings over a broad range of temperatures and speeds + -20 to 160°C (-4° to 320°F) + Heat resistance provides improved protection, reducing component wear rates + Formulated with polyurea thickener and corrosion inhibitors	

* We offer a range of specialty products like axle and brake additives, hydraulic oil additive and more.





CAT EXTENDED LIFE COOLANT (ELC)[™]

If you own a newer piece of Cat equipment, you probably haven't given coolant much thought. That's because your machine came with Cat Extended Life Coolant (ELC) that lasts for up to 12,000 hours – four times longer than a conventional coolant. It is hands-off and worry-free.

Cat coolants provide excellent protection against boiling and freezing to prevent component damage. They are designed as part of the Cat System Solution to offer enhanced protection against corrosion, scaling, and deposits. You will benefit from increased uptime and lower owning and operating cost, in the long run.

Cat ELC offers an impressive 12,000-hour/6-year drain interval with no fluid sampling required. The coolant system extender at mid-life (6,000 hours or 3 years) helps maintain coolant condition while protecting your machine.

Our coolants contain nitrites that have been proven to reduce cavitation and extend component life. Our fully formulated coolant provides enhanced corrosion protection in any environment. Cat coolants last longer and require less attention, which makes machine maintenance much simpler.

Cat coolants require less frequent changes, and fewer drain intervals and only require one coolant additive for simplified maintenance of your machine.

CAT EXTENDED LIFE INHIBITOR (ELI)[™]

Cat Extended Life Inhibitor (ELI) is a long-lasting coolant for marine and industrial engines working in environments that do not experience freezing temperatures. Cat ELI uses an active protection technology, similar to Cat ELC[™], that avoids the problems experienced with conventional coolants and supplemental coolant additives (SCA) mixed with water. These types of coolants lay down a coat of inhibitors, such as silicates, throughout the entire cooling system that slows heat transfer and reduces cooling system efficiency. Cat ELI works by sending its organic additives only to areas susceptible to corrosion. This active protection technology delivers protection, and cooling system efficiency.



CAT[®] PLANNED MAINTENANCE KITS

TIME IS MONEY. GET BACK MORE OF BOTH.

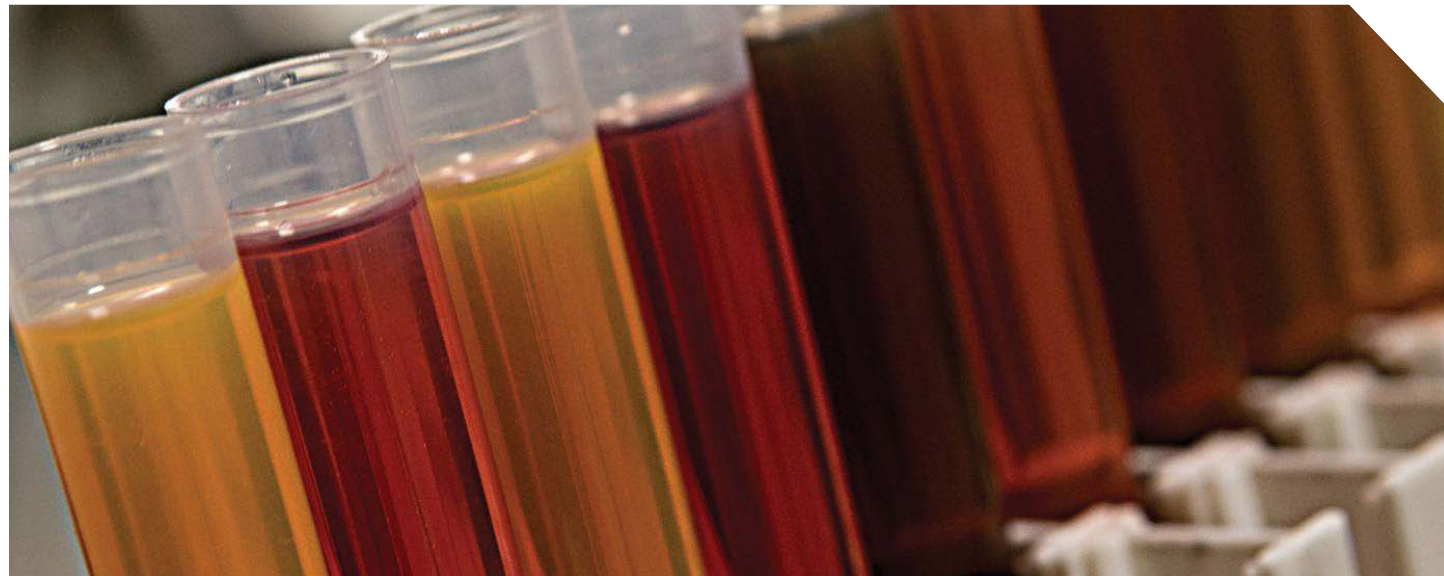
What's in a Cat Planned Maintenance (PM) Kit? All the right parts for your specific machine and maintenance interval, which saves you time and eliminates guesswork. Plus, regular maintenance with genuine Cat parts helps your components last longer and keeps your machine running at peak performance. The result? You maximize working hours and opportunities to make money. Buying PM parts one by one takes time and planning. With a Cat PM Kit, all the parts required for your machine's specific maintenance interval are boxed up in one package — pick it up at your local dealer or get it shipped directly to you. You save time ordering and get the right parts, all backed by the standard 12-month Cat parts warranty.

When you build a Cat PM Kit on Parts.Cat.Com, it automatically populates with all the parts required. Need everything on the list? Click "Add All to Cart." Already have certain items on hand or want to grab an extra? Add or remove items using the "+" and "-" buttons. The exact contents of your Cat PM Kit depend on your machine and maintenance interval. But you'll always find Cat filters and sometimes Cat fluids, as well as other genuine Cat parts like seals, gaskets, belts and S-O-SSM sampling bottles.

What's the advantage of that? Every Cat PM Kit includes Cat Filters designed to deliver better protection and performance in your equipment. Competitive testing shows that Cat Filters can lead to up to 45% longer fuel injector life for up to 80% lower injector cost per hour.* Cat PM Kits may include Cat Fluids such as oil, coolant and grease. Tests show they can extend oil drain intervals 1.5X to 3X versus the competition.* That means you could reduce the number of oil changes you perform from three down to one — a big time-saver.

You made an investment in your Cat machine. The best way to earn maximum return on that investment is always to use parts and components designed specifically for that machine. They'll perform better, wear longer and keep your repair costs low.

**The information contained herein are test results obtained under specific conditions and maintenance practices. Caterpillar implies nothing further, and no one should infer that using the Cat products described herein will result in the same or similar benefits as defined in this document.*



FLUID ANALYSIS

Routine fluid analysis can improve the health of your equipment. With **Cat S-O-SSM Services**, you can save on your owning and operating costs. This routine check-up for your oil, coolant, and fuel delivers valuable insights you can use to prevent unexpected failures and unplanned downtime. You provide the sample, and our fluid analysis experts do the rest – using proprietary processes, sophisticated chemistry, and the latest technology to reveal excessive wear, contaminated fluids or other unseen issues. You get reports you can understand and recommendations you can act on, fast.

6 REASONS TO CHOOSE CAT S-O-SSM FLUID ANALYSIS

If you don't have a strong fluid analysis program or you're sampling with another lab, here are six compelling reasons why Cat S-O-S Services beats the rest.

- 1. GET RESULTS YOU CAN TRUST:** The S-O-S process is built by Caterpillar scientists and backed by product engineers. Our worldwide testing standards ensure consistent quality so you receive accurate, detailed results every time.
- 2. SEE SOPHISTICATED TREND ANALYSIS:** We evaluate your sample based upon complete product knowledge, fluid properties, and analysis of millions of data points—with more than 7 million samples tested each year.
- 3. OUR EXPERTS CARE ABOUT YOUR BOTTOM LINE:** Your Cat dealer can set a sampling schedule tailored to your needs, and integrate it into a robust equipment management program. Not only will you save by fixing issues before failure, you can optimize operations to control costs.
- 4. ENJOY COMPLETE CONDITION KNOWLEDGE:** Your fluid data is integrated with other vital condition monitoring information—giving you insights into health, performance, location, and more. (And with global software, you can seamlessly sample with any Caterpillar lab and get a complete history.)
- 5. MIXED FLEET? WE HAVE YOU COVERED:** Our team knows engines and components better than anyone, whether made by us or another manufacturer. About 25% of all samples come from equipment other than Cat. We're your total solution for mixed fleets.
- 6. WE'RE BUILT FOR EVERY TYPE OF FLUID AND APPLICATION:** Caterpillar handles oil, coolant, and diesel fuel sampling for all kinds of equipment from power generation to pipeline, mining to marine, and more.

A SYSTEM APPROACH ENHANCE MACHINE HEALTH WITH CAT FILTERS, CAT FLUIDS, & CAT S-O-S FLUID ANALYSIS



Caterpillar component engineers design and test Cat Filters and Fluids alongside Cat equipment to ensure system efficiency. Routine Cat S-O-S fluid analysis helps extend drain intervals, identify contaminants early, avoid failures, and improve equipment performance. This consistent engineering design process delivers the peace of mind that comes with owning a Cat machine.

Cat Fluids provide increased performance and reliability to your equipment. With rigorous standards, quality testing, and experts in the field weighing in on the fluid designs, Cat Fluids will last longer and extend drain intervals. This means that your system runs cleaner, your machine performs better, and your components last longer.

Cat Filters are essential to keeping your equipment running smoothly and efficiently. The filters capture harmful particles and maintain system cleanliness. By investing in quality Cat Filters, your equipment is protected and performing at its peak. Not only will you benefit from improved system health, but you will also see lower owning and operating costs, overall.



CAT BULK OIL

Cat Bulk Oil Delivery is an oil delivery program that provides you with top performing Cat engine, hydraulic and transmission oils in the bulk amounts you value. When your equipment and oils work together, you see serious results.

- + **Longer drain intervals when combined with S-O-S Fluid Analysis**
- + **More uptime for your machines - and more work done**
- + **Greater protection for machine components compared to industry standard oils**
- + **Higher profits from time spent on the job and out of the shop**

Mixed Fleet? No Problem.

We formulate Cat Oils to not only meet but exceed industry standards, so regardless of the logos on your equipment, Cat Oils provide premium protection against wear on the job. Go ahead and use them for your whole fleet.

CAT PERFORMANCE FOR YOUR ENTIRE FLEET

Small or large, Cat or other brands, whatever type of equipment you run, Cat oils, greases, and coolants deliver premium protection. Formulated to meet and exceed industry standards and most OEM specifications. They help you maximize component life, extend change intervals, and reduce downtime — so your equipment works more productively and profitably.



Cat engine oils dissipate and reduce friction for increased component protection. We formulate Cat oils to meet and exceed industry standards, so regardless of the logo on your equipment, Cat oils provide premium protection.

Cat gear oils prolong gear and bearing life in applications where extreme pressures can occur.

- + Cat GO API GL-5 SAE 80W-90/ SAE 85W-140
- + Cat GO Syn API GL-5 SAE 75W-140
- + Cat Compactor Oil ISO 220
- + Cat Gear Oil 220 ISO 220

Cat hydraulic oils protect wear surfaces from cavitation and prevent pump damage in today's high-pressure hydraulic systems.

Cat final drive and axle oils protect against corrosion in high-load, high-temperature conditions.

Cat coolants protect your engine and cooling system against corrosion and pitting while managing temperature.

- + Cat ELC (Extended Life Coolants)
- + Cat ELI (Extended Life Inhibitor)
- + Cat DEAC (Diesel Engine Antifreeze/Coolant)
- + Cat NGEC (Natural Gas Engine Coolant)

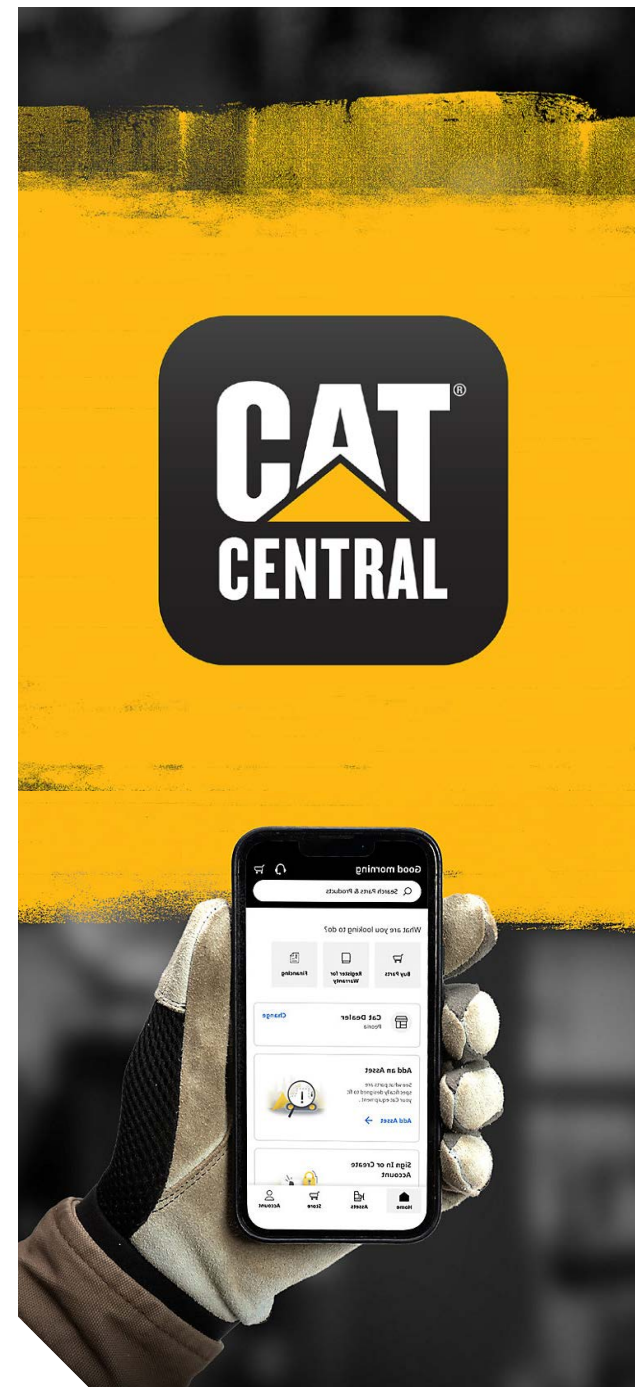
Cat greases feature chemistry that performs even in the most rigorous applications. You can count on them to reduce galling and scratching, prevent seizing, and resist corrosion and washout.

- + Cat ball bearing grease
- + Cat utility grease
- + Cat prime application grease
- + Cat extreme application grease 1
- + Cat extreme application grease 2
- + Cat extreme application grease — desert
- + Cat extreme application grease — arctic

Cat transmission oils are balanced to give maximum friction material life and minimize break chatter in wet break applications.

SIMPLER. FASTER PARTS SHOPPING EXPERIENCE

Promoting a more personalized and intuitive user experience, Caterpillar has multiple apps to help you order parts and access general support resources, freeing up the time to focus on the job at hand.



PARTS.CAT.COM

Order genuine Cat parts, scan and shop your asset instantly, and find answers to maintenance and parts questions. Plus, get parts when you need them most with dealer pickup and delivery options.

CAT CENTRAL*

Access parts and support from anywhere with Cat Central. The Cat Central app is your newest tool for Cat parts and support on-the-go.

CAT INSPECT

Access your equipment data on your mobile device. This easy-to-use app lets you capture inspection data and integrates with your other Cat data systems, so you can keep a close eye on your fleet.

CAT PRODUCT LINK™ AND VISIONLINK®

Product Link™ collects data automatically from your assets – any type and any brand. Access information anytime, anywhere with VisionLink® – and use it to make informed decisions that boost productivity, lower costs, simplify maintenance and more. Satellite and/or cellular subscriptions are available.

EASY TO USE CODES

Scanning our product codes leads you to a website where you can find your local Cat dealer, get more information about the product, and simplify the re-ordering process for Cat Filters and Fluids. It is a convenient solution for all your equipment needs.



MORE THAN PARTS AND COMPONENTS

When you buy Cat parts, components, or equipment, you get so much more. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools and more.



CUSTOMER VALUE AGREEMENTS

Cat Customer Value Agreements (CVAs) are the easiest way to get Cat Filters and Fluids — delivered right to you, right on time for maintenance. CVAs also offer an Equipment Protection Plan and key machine insights right on your phone. It is a one-stop solution to keep your machine easy to own and ready to work. That is a CVA.

FINANCING & EXTENDED PROTECTION

Cat Financial offers tailored financing options for your business such as buying equipment, protecting investments beyond the standard warranty, and using equipment equity to drive business growth. Plus, you can manage your online account anywhere, any time and using any device.

CAT CARD* WITH CAT VANTAGE REWARDS

Cat Card is the fast, easy way to pay for parts, service, rentals and more, wherever the job takes you. Eligible Cat Card account holders are automatically enrolled in Cat Vantage Rewards and can earn 1% back on qualifying Cat Card purchases** and even more when shopping with approved online Cat retailers. The more you spend, the more Cat Vantage Points you earn. It's that simple.

Cat Card is accepted at all Cat dealerships and at The Cat Rental Store in the country of issue, either U.S. or Canada, and you can also use it to shop on Parts.Cat.Com. Cat Vantage Points are issued as Cat Credits.

*Cat Card is expanding daily. Please contact your dealer for more information about availability in your area.

**Consult your dealer or Cat.com for more details.

CAT FILTERS

From unique design to proven results. Cat filters and fluids deliver industry-leading protection for your Cat equipment.

CAT® S-O-SSM FLUID ANALYSIS

This routine check-up for your oil, coolant and fuel delivers valuable insights you can use to prevent unexpected failures and unplanned downtime.

HYDRAULIC HOSE & COUPLINGS

Cat Hose and Couplings exceed industry standards to assure performance across all makes and all models.

HYDRAULIC PUMPS & MOTORS

Precisely matched to your machine specs, Cat Pumps and Motors protect your productivity and profits.

HYDRAULIC CYLINDERS & RODS

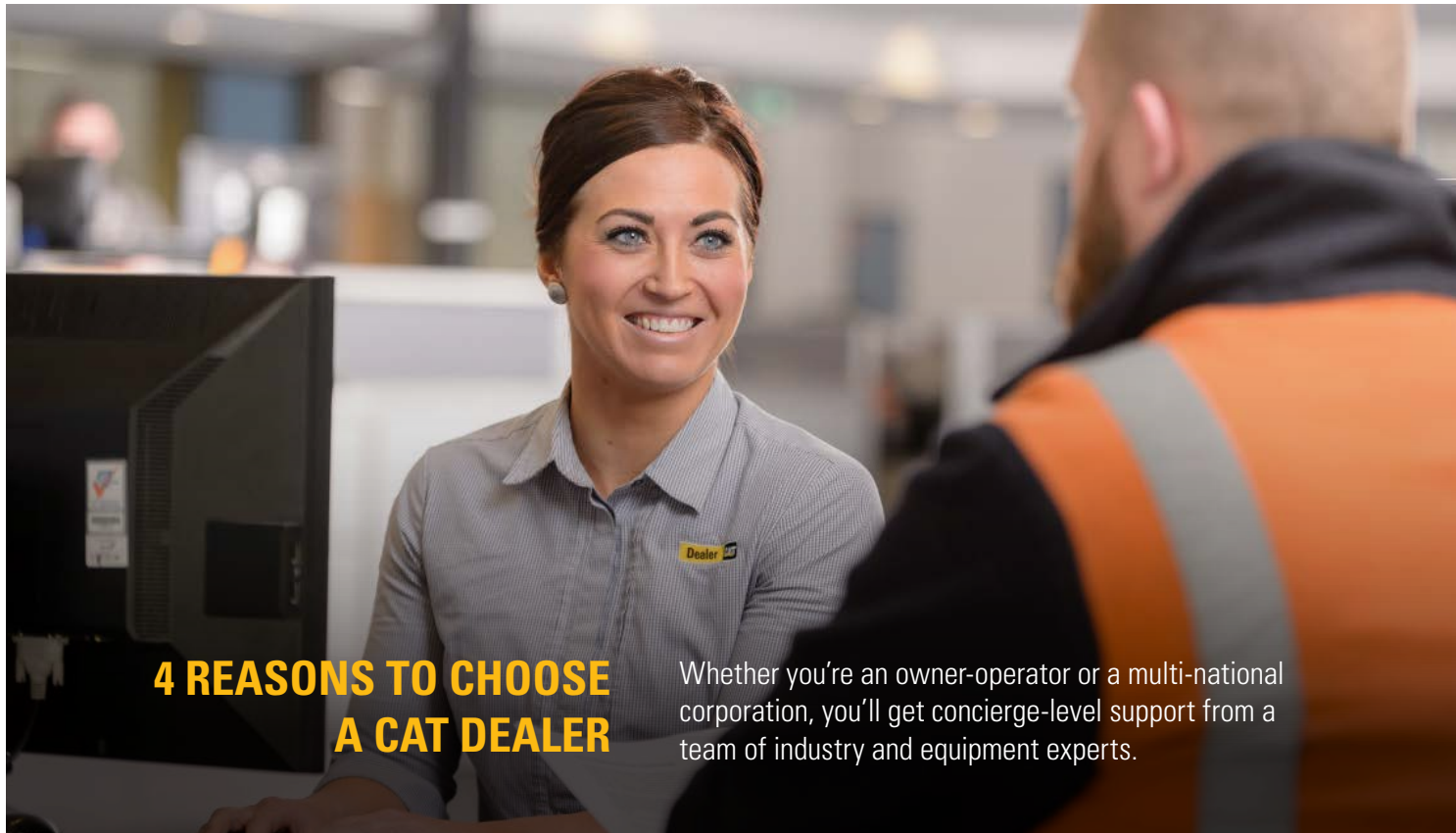
Cat Hydraulic Cylinders and Rods can help protect the muscles of your machine by increasing productivity and part life.



*Cat Central is expanding daily. Please contact your dealer for more information about availability in your area.

THE CAT DEALER NETWORK THEY'RE NOT JUST A CAT DEALER. THEY'RE YOUR CAT DEALER.

You are supported by the largest, most experienced dealer network in the industry. When you collaborate with a Cat dealer, you get more than basic maintenance or repairs. You get a personal partner who will do whatever it takes to help you succeed.



4 REASONS TO CHOOSE A CAT DEALER

Whether you're an owner-operator or a multi-national corporation, you'll get concierge-level support from a team of industry and equipment experts.



LOCAL PARTNERS

Cat dealers are locally operated by people who are invested in your success. Many customer-dealer relationships go back generations.



TAILORED SUPPORT

Your Cat dealer will listen to your unique needs and find the right solution for your business, budget, and goals.



ONE STOP SHOP

From engines to gensets to machines, your Cat dealer can support all your equipment needs, from purchase to consignment. No need to go elsewhere.



SEASONED EXPERTS

Cat dealers employ long-tenured technicians and industry-specific experts to give you the best support possible.



CAT FILTERS, FLUIDS, AND S-O-S FLUID ANALYSIS

CAT FLUIDS

For more complete information on Cat products, Cat dealer services and industry solutions, visit us on the web at www.cat.com.
Materials and specifications are subject to change without notice.
Featured machines in photos may include additional equipment.
See your Cat dealer for available options.

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