

KOMATSU

KOMATSU GENUINE LUBRICANTS & COOLANTS



COOLANT



HYDRAULIC OIL



DIESEL ENGINE OIL



GEAR OIL



POWERTRAIN OIL



GREASE

KOMATSU HEAVY DUTY ENGINE OIL



KOMATSU DIESEL ENGINE OIL has been specifically designed to meet the latest stringent requirements of Komatsu.

It combines high quality mineral base oils with field proven additive

technology to provide optimum protection against wear and corrosive attack. The upgraded high ash formulation has improved performance in the areas of high temperature deposit control, foaming, oil consumption, oxidation stability, shear stability.

Anti-wear Performance

Provides superior anti-wear performance, suppressing wear in major components such as cams, tappets, piston rings and valve train wear protection.

High Dispersancy

Emission controlled engines inevitably contain soot in the oil. Therefore, the engines must be able to uniformly disperse the soot in the oil. The Komatsu engine oil reduces the generation of insoluble fractions by soot and suppresses abrasion by carbon.

Superior Detergency

Carbon particles deposited around the engine combustion chamber may cause the piston ring or valve to seize. With it's superior detergency, the oil reduces the carbon particles and maintains the detergency of the area around the combustion chamber.

High Thermal Stability

Oils used in earth moving machinery with high load on the engine require thermal stability. Komatsu engine oil helps prevent thermal deterioration and maintains the lubrication properties for an extended period.

KOMATSU GENUINE HYDRAULIC OIL maximises the performance of hydraulic equipment in construction and mining machinery operated under even higher loads, thus extending hydraulic equipment life.

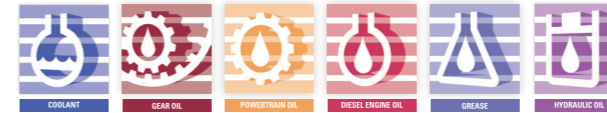
High load-carrying capacity helps maintain a strong oil film, maximising the scuffing resistance of high pressure hydraulic equipment.

- » Excellent wear resistance extends the life of hydraulic equipment
- » High oxidation stability
- » Superior sealing compatibility

High-performance oils that have passed Komatsu's unique engineering standards.



KOMATSU GENUINE LUBRICANTS AND COOLANTS



KOMATSU HYDRAULIC OIL is an anti-wear hydraulic bearing and circulating oil.

Komatsu Hydraulic Oil is suitable for gear, vane and piston type hydraulic pumps operating under medium to severe service conditions. Typical applications include plant and machinery hydraulic systems, machine tools and other applications requiring a lubricant with good anti-wear and anti-oxidation properties.



KOMATSU GEAR OIL is a high viscosity, extreme pressure hypoid gear lubricant.

Designed for differentials, gear boxes and steering gears operating under high ambient temperatures. Komatsu Gear Oil has outstanding thermal stability, oxidation resistance and corrosion protection. Anti-foam properties ensure a continuous film is maintained on gear surfaces and also prevents lubricant loss through breathers. Extreme pressure additives enable Komatsu Gear Oil to withstand high rubbing speeds and tooth pressures.



KOMATSU POWERTRAIN OIL is a powertrain fluid formulated to meet requirements of Komatsu

Micro clutch test, Caterpillar TO-4 and Allison C4. Komatsu Powertrain Oil is also suitable for use in hydraulic systems, final drive cases and swing machinery where SAE 30 grade is specified and for machinery continually operating at extreme temperatures.



KOMATSU DIESEL ENGINE OIL meets JASO DH-1 requirements & the soot thickening

requirements of API CH-4. Komatsu Diesel Engine Oil is a high ash, multigrade diesel engine oil formulated to specifically meet the needs of Komatsu equipment and Japanese heavy-duty diesel engines. It can also be used in mixed fleets, including older generation European diesel engines.



KOMATSU HYPER GREASE G2-TE is a lithium complex grease which has superior properties in wet conditions. It's unique additives dramatically improve adhesion and tackiness in wet environments, reducing water washing out that can be associated with other standard greases

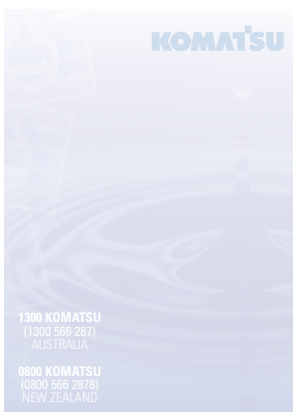
KOMATSU LITHIUM EP GREASE G2-LI is a lithium complex grease intended for use over a range of operating temperatures. It has excellent oxidation stability, rust preventive characteristics, superior adhesiveness and structural stability.



To support our extensive range of construction, mining and utility equipment, Komatsu Australia now has a range of genuine oils, lubricants and coolant specifically designed to meet rigorous Komatsu Engineering Standards;



	5 litre	20 litre	205 litre	1000 litre
Diesel Engine Oil	3352157	3342449	3342450	3353455
Powertrain Oil T010		3345087	3345088	3380202
Powertrain Oil T030		3342455	3342456	3377113
Gear Oil		3373137	3373136	3385520
Hydraulic Oil		3349857	3349856	3371499
Supercoolant (premix)	3351106	3351081	3351080	3351079
	450g	20kg		
Hyper Grease	3344516	3344515		
Lithium Grease	3345030	3345029		



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WHY SHOULD I USE KOMATSU GENUINE LUBRICANTS?

Engine and equipment technology and design continues to change, to meet the requirements of emission regulations overseas.

- » To meet the requirements of current emissions regulations and develop new oils for future levels, manufacturers are using retarded injection timing, higher fuel injection pressure, raised top piston ring which increases combustion temperature, exhaust gas recirculation, variable valve timing, catalytic converters, low friction engines, direct injected petrol engines and more sophisticated engine management systems. All of these changes in technology have their own characteristics which impact on the engine oil.
- » As well as coping with technology changes due to emissions legislation, our lubricants (and coolant) must also deal with increased engine operating temperatures, minimised evaporative loss to reduce oil consumption and after doing that, must still be able to maintain or extend oil drain intervals.

- » To achieve these goals, manufacturers continue to use different piston designs and engine management systems. To ensure the best results from the engine, technically advanced and complicated engine oil formulations are needed to meet all engine design requirements.

Komatsu equipment owners rely on us to provide them with the right advice and supply them with the right product for their particular application. Critical to that equipment operation and reliability are the lubricants and coolant we design for use in their machines.



KOWA. If you are genuinely concerned about the oils you use in your machine then considering KOMATSU OIL WEAR ANALYSIS should be an integral part of your machine lubrication care programme.

The spearhead of Komatsu condition monitoring services is KOWA (Komatsu Oil Wear Analysis)-our customised oil analysis program. Your equipment is the lifeblood of your business, and KOWA works like a blood test for your machine. The results gained from analysing the impurities and contaminants found in, for example, your engine, transmission or hydraulic oil is fundamental to predicting early life failure or abnormal wear rates. This is one test your equipment cannot afford to miss.



KOMATSU SUPERCOOLANT



High Performance Long-life Coolant with low impact on the Global Environment.

Coolant selection has significant implications

-The life of your engine radiator heavily depends on what coolant you select.

Enhanced with special additives for heavy-duty construction and mining machinery, Komatsu Genuine Supercoolant is a non-amine/non-nitrite type, high performance coolant that satisfies Komatsu's engineering standards.

Stable non-freezing performance that can withstand the winter season or the climate in very cold districts.

Utilising high-quality ethylene glycol, this coolant demonstrates stable non-freezing performance over a long period, preventing freezing troubles.

Komatsu introduces the Supercoolant

It is qualified by KES (Komatsu Engineering Standards) and meets the strict requirements of the current heavy-duty machine operation. Heavy-duty machines utilise aluminium radiators but Komatsu Supercoolant supports the machine to perform to its best potential.

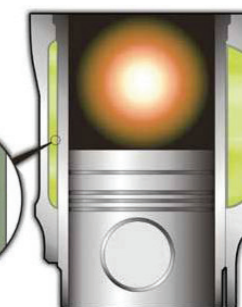


- » Pre-diluted with de-ionized water for convenience in handling
- » Prevents corrosion since causative agents and metallic ions are already removed from the water
- » Reduces the risk of machine down time caused by engine cooling system trouble
- » High protection against corrosion and cavitation
- » Prevents scale generation
- » Gives longer maintenance duration and cheaper running costs
- » Friendly to the environment
- » Avoids the necessity of applying corrosion resistor filters

CAVITATION PREVENTING MECHANISM WITH KOMATSU GENUINE SUPERCOOLANT

Metal corrosion tests;
(conforming to the JIS K2234 tests)

- » Special additives reduce the destructive force of air bubbles
- » Special additives are absorbed to form a protective film on the metal surface



With cavitation.

Sustaining robust anti-rust and anti-corrosion features.



When used for extensive periods, coolant additives deteriorate because of heat and oxidation, degrading the coolant's performance. The Komatsu genuine coolant contains highly heat-tolerant long-life additives to achieve long-standing robust anti-rust and anti-corrosion features.

Excellent performance in preventing cavitation and scale generation.

With special additives blended in, this coolant suppresses cavitation damage to the cylinder liner or water pump that might otherwise cause engine trouble. In addition, it extends the life of each component within the coolant system. With special scale-preventative additives working, this coolant greatly contributes to reduction of clogging problems with cooling system.

Product Name	Komatsu Supercoolant
Colour	Blue
Anti-Corrosion	For all metals (aluminium, steel, solder...)
Cylinder liner protection performance	Very high
Replacement interval	Two years or 4000 hours

Note. Komatsu Genuine Supercoolant eliminates the need for a corrosion resistor filter. For details see the Operation and Maintenance manual.



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