



GUARDOL ECT[®] WITH LIQUID TITANIUM FREQUENTLY ASKED QUESTIONS

- 1. Is Guardol ECT[®] with Liquid Titanium a new product from ConocoPhillips Lubricants?**
 - a. Guardol ECT[®] with Liquid Titanium is an enhancement to ConocoPhillips' industry-leading API CJ-4 synthetic blend diesel engine oil made from an advanced, low SAPS (sulfated ash, phosphorous and sulfur) technology.
 - b. This enhanced diesel engine oil is engineered from advanced high-performance additives and a blend of synthetic and high-quality Group II base stocks.

- 2. Why did ConocoPhillips Lubricants add Liquid Titanium to their engine oil?**
 - a. In short, to further improve performance.
 - b. Titanium has the highest strength-to-weight ratio of any metal and provides an extra layer of protection to further reduce wear on critical parts and help extend engine life—specially in severe service.

- 3. Are there diesel engine oils from other lubricants companies that have Liquid Titanium?**
 - a. No. Guardol ECT[®] with Liquid Titanium from ConocoPhillips Lubricants is the first and only multi-grade, heavy duty engine oil of its kind, which raises the bar for novel diesel engine oil technology.

- 4. How does Liquid Titanium work?**
 - a. Liquid Titanium is a powerful additive that strongly bonds to metal surfaces at the molecular level, adding an extra layer of protection to further reduce wear on critical parts and help extend engine life—especially in severe service.

- 5. What are the benefits of using Guardol ECT[®] with Liquid Titanium?**
 - a. Guardol ECT[®] with Liquid Titanium provides enhanced engine wear protection, better bearing protection, and increased oil oxidation stability.
 - b. It resists viscosity and thermal breakdown, even at high temperatures, and as a synthetic-blend formulation provides excellent low-temperature pumpability.

- 6. Is Liquid Titanium abrasive?**
 - a. Liquid Titanium is a “liquid” additive that is completely soluble in the lubricant. Guardol ECT[®] with Liquid Titanium is a homogeneous liquid product, without any solids or suspension and is not abrasive to engine parts.

- 7. Is Liquid Titanium just another “aftermarket additive?”**
 - a. Liquid Titanium additive is not available in the “aftermarket.” Guardol ECT[®] with Liquid Titanium is a fully formulated oil that contains the performance additive balanced for optimum performance in the engine.

8. Has Liquid Guardol ECT® with Titanium been tested?

- a. Guardol ECT® with Liquid Titanium has been tested in the CJ-4 engine tests. It shows reduced wear of critical parts in the severe Cummins ISB test and also shows reduced wear, less deposits and increased oil-oxidation stability in other industry standard engine tests and bench tests.
- b. Guardol ECT® with Liquid Titanium has been extensively field tested across numerous fleets in several different engine types to validate its performance.

9. Is Guardol ECT® with Liquid Titanium approved under the latest heavy duty engine oil specifications from major engine builders?

- a. Yes, Guardol ECT® with Liquid Titanium is API CJ-4 licensed and approved under the latest OEM specifications from Caterpillar, Cummins, Detroit Diesel, Mack, Mercedes and Volvo for use in the 2007 and later model year, low emission engines equipped with after-treatment devices. It is also back serviceable for use in older engines specifying the previous service category of diesel engine oils.

10. Why should a heavy-duty equipment operator use Guardol ECT® with Liquid Titanium?

- a. This Liquid Titanium enhancement of the diesel engine oil provides added value to fleet owners and operators by helping to improve engine performance, reduce maintenance, extend drain intervals and protect the investment.

11. Does Guardol ECT® with Liquid Titanium allow for longer drain intervals?

- a. Guardol ECT® with Liquid Titanium is a premium quality CJ-4 oil that provides excellent engine protection and offers extended drain capability. As always, ConocoPhillips recommends that customers follow the engine builder's guidelines for establishing the oil drain interval.

12. How versatile is Guardol ECT® with Liquid Titanium? Can it be used in the same applications as Guardol ECT®?

- a. Guardol ECT® with Liquid Titanium can be used in any application currently being serviced with Guardol ECT® or any other API CJ-4 quality engine oil.
- b. Guardol ECT® and Guardol ECT® with Liquid Titanium are fully interchangeable in all applications.
- c. Guardol ECT® with Liquid Titanium may be used as make up oil or as a full replacement during service.

13. Which ConocoPhillips Lubricants brands offer Guardol ECT® with Liquid Titanium?

- a. The Conoco, Phillips 66 and 76 Lubricants brands offer Guardol ECT® with Liquid Titanium.

14. Where can I go to receive more information on Guardol ECT® with Liquid Titanium?

- a. For more information on Guardol ECT® with Liquid Titanium, please visit <http://lubricants.conocophillips.com/TTANIUM>.