Maintenance products designed for off-road conditions to provide John Deere equipment with the best performance and life. The best protection for your customer's equipment.
- Achieve maximum machine life
- Factory fill
- Designed and tested for John Deere equipment
- Proprietary formulation sold only by John Deere Dealers

John Deere Plus-50™ II API CJ-4/SN provides:
- 500 hour service intervals
- Full fleet engine oil solution
- Low-ash Tier 4 emission system protection
- Unsurpassed viscosity control
- Excellent protection for all components of your engine
- Robust soot dispersing and cleaning properties
- 100% backward compatibility
- Biodiesel proven performance
Pistons (JDQ-78X Test)

The Most Severe ‘Off-Road Duty Cycle’ Dyno Test for Thermal Oxidation

- This test was developed by John Deere as our standard qualifying test. It’s the most severe engine oil oxidation test in the industry!
- It involves running a John Deere engine for 500 hours, at very high temperatures
- Objectives of the test are to destroy the oil by making it oxidize and to measure oil thickening, acid accumulation, wear, sludge and deposits.

These pistons simulate the actual pistons that ran in the JDQ-78X test from Southwest Research Institute, an independent testing organization.

JDQ-78X engine test is conducted for 500 hours using John Deere Plus-50™ II and a leading competitive engine oil. Note that the deposits are much heavier on the pistons from the engines operated with the competitive engine oil.

A key to engine life and performance is keeping the engine clean with minimal deposits. John Deere Plus-50™ II engine oil does an outstanding job in keeping the engine clean and minimizing deposit formation.

The piston operated with competitive oil leaves much more deposits in the ring area and the under crown area of the piston. The carbon in the ring can cause premature wear and rings not to perform as designed.

High temperatures and extended use of engine oil results in the oil oxidizing or degrading. The quality of the base oil, the type additives and the correct balance of additives for specific applications determines the end results you will receive from the oil used in a machine.
John Deere Plus-50 II provides:
- Excellent control of oxidation
- Excellent control of viscosity

The competitive oil could not pass the JDQ-78X test. The test had to be stopped because the oil turns to sludge.

Plus-50 II Oil is superior with robust additive system and high quality base oils to reduce oxidation (oil thickening).

Plus-50 II viscosity remains stable throughout extended drain interval.

Competitive oils thickened to a point not providing adequate protection. Results in lower flow and greater deposit formation. Competitive oils are not approved for extended drain intervals.
Plus-50™ II Warranty

The John Deere Plus-50 II warranty is a great document to provide your customers. (DKB5054) John Deere backs up the performance claim of Plus-50™ II.

John Deere Company guarantees Plus-50 II Engine Oil will meet or exceed the performance needs of diesel engines. Regardless of hours or miles, John Deere Company will pay for any damages (parts and labor) to your engine which are caused by an oil defect so long as:

• The oil defect is verified by oil analysis.
• The engine oil used is confirmed to be unadulterated and non-contaminated Plus-50 II.
• Plus-50 II meets the engine manufacturer’s specifications for the service and application.
• The engine is used under normal operating conditions and maintained according to manufacturer’s recommendations.

To make a claim under this warranty, it will be necessary to provide the following as part of the technical investigation:

• Records showing that the engine was serviced according to the manufacturer’s recommendations.
• Submit an oil sample from the failed engine for analysis to determine if oil is defective.
• Make available the failed engine.

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John Deere Plus-50 II Engine Oil
Limited Performance Warranty

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• The oil defect is verified by oil analysis.
• The engine oil used is confirmed to be unadulterated and non-contaminated Plus-50 II.
• Plus-50 II meets the engine manufacturer’s specifications for the service and application.
• The engine is used under normal operating conditions and maintained according to manufacturer’s recommendations.

To secure warranty service, report the product failure to an authorized John Deere dealer.

To make a claim under this warranty, it will be necessary to provide the following as part of the technical investigation:

• Records showing that the engine was serviced according to the manufacturer’s recommendations.
• Submit an oil sample from the failed engine for analysis to determine if oil is defective.
• Make available the failed engine.

John Deere disclaims all liability for indirect or consequential damages.

Your rights and remedies pertaining to this warranty are limited as set forth herein. Implied warranties of merchantability and fitness are not made and are excluded.
John Deere Hy-Gard™

Balanced formulation for optimum protection
- Tested and proven to deliver excellent performance
- Proven oxidation control to maintain viscosity with optimal hydraulic system, clutch and gear protection performance
- Prolonged equipment life and less maintenance costs with overall equipment protection
- Avoid fluid mixing between tractor oil sumps and implements that can compromise your oil’s integrity by using John Deere Hy-Gard™ in all of your equipment
- (Optional) Bio Hy-Gard II designed with improved biodegradability and equipment protection
JDQ-95 Gear Wear Test

JDQ-95 Spiral Bevel & Final Drive Evaluation

This test is focused on the oil’s ability to protect gears from wear under severe load conditions. This is one of the tests oil must pass to meet John Deere’s J20C minimum requirements.
- 50 hour test
- Very high loads
- High and low speed

Competitive fluids do not provide the same gear protection as Hy-Gard. The competitive oil gear surface of the gear is severely scored, destroying the machining and heat treatment of the gear which will lead to premature gear failure and down time. The Hy-Gard™ gear surface looks like new and provides superior protection against wear, providing maximum gear life.
TZT Oxidation Test

John Deere uses the TZT Oxidation test to determine a transmission and hydraulic oil’s ability to protect against oxidation (extreme heat).

John Deere adopted the TZT Oxidation test as one of the primary tests used for Hy-Gard™ and for the John Deere J20C specification (minimum recommendation for Deere equipment). Withstanding oxidation allows the oil to perform well, ensuring the oil is durable and will provide the proper performance for the entire service interval. The TZT test is a severe oil oxidation test intended to test the durability of the oil. This test runs for 400 continuous hours at 320° F / 160° C, using a zero turn mower drive unit. If the oil lasts through this test, it proves that the oil will hold up well under the high operating temperatures found in a tractor or other applications.

The pictures here show the difference in performance of Hy-Gard and an inferior oil. The competitor’s oil left heavy deposits on the pan and the viscosity has increased dramatically. The valves may stick, and the oil may be corrosive.

For longer equipment life, you need a high quality tractor hydraulic fluid: John Deere Hy-Gard. Hy-Gard exceeds John Deere’s minimum oil performance standards.
John Deere Hy-Gard™ Summary

Hy-Gard™ — thoroughly tested to ensure balanced performance in:
- Wet brakes
- Wet clutches
- Gear wear protection
- Pump performance
- Inexpensive products often are NOT tested at all — beware of claims
- Shear stability — leaks, inefficient pumps, high fuel consumption
- Inexpensive hydraulic fluid may claim to be recommended where
- J20C is specified though NOT tested to meet this specification
- Don’t be tricked, your equipment deserves the best – John Deere Hy-Gard™
- Hy-Gard™ is the best overall value