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Plus-50® 15W40 Synthetic Blend Engine Oil Applications

- Plus-50 provides the absolute best performance and wear protection for John Deere diesel engines.
- Excellent for use in all diesel engines requiring a 15W40 oil with CH4 performance.
- Heavy duty trucks, tractors, pick-ups, combines and other diesel engines.

Service Ratings

- API ratings—(Diesel) CH4, CG4, CF(IDI), CF4, CE, CD, CC, CB, CA; (Gas) SJ, SH, SG, SF, SE, SD, SC
- Military ratings—CIDA-A-52306, CIDA-A-52309, MIL-L-46152B, MIL-L-2104F, MIL-L-2104E, MIL-L-2104D, MIL-L-2104C
- Mack—EO-M PLUS, EO-M, EO-L, EO-K/2, T9, T8, T8E, T6 & T7, EO-J (Mack trucks)
- Allison—C-4
- Caterpillar—TO-2, 1P, 1K, Series 3
- Cummins—CES20071, CES20076, M-11

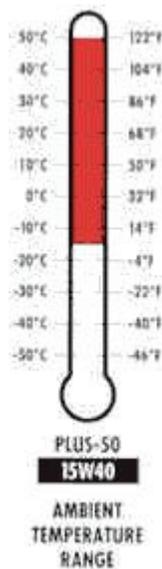
Test Analysis 15W40

- Viscosity 40°C..... 100 mm²/s
- Viscosity 100°C..... 14.0 mm²/s
- HTHS, 150°C..... 4.1 cp
- Pour point..... -30°C
- Flash point..... 210°C
- Total base number (TBN)....11.0 mg KOH/g
- Sulfated ash level..... 1.23% wt
- Viscosity index..... 136

Reduce piston deposits

carbon deposits in the piston upper ring compression substantially fewer deposits in the lower oil ring other high-performance oils. Fewer carbon deposits result in less cylinder liner polishing and/or scoring, free movement of rings, and lower oil consumption.

- Feature: Plus-50 produces less carbon buildup than competitive oils.
- Advantage: Less carbon buildup keeps pistons and rings functioning effectively.



Plus-50 shows fewer grooves and grooves compared to



- Benefit: Less carbon buildup reduces engine wear and lowers oil consumption.

The thermometer graph and pictures show the actual test results observed after making performance comparisons with a premium brand of competitive oil.

Features

- Exceeds API CH4 performance level.
- Exceeds API SJ performance level for gasoline engines.
- Formulated specifically to provide maximum wear, oxidation, deposit and corrosion protection with superior soot control.
- Provides reduced oil consumption.
- Contains a balanced blend of additives that inhibit oxidation, corrosion, and wear.
- Reduces maintenance costs and downtime, plus extends engine life.
- Provides maximum sludge and varnish control.
- Has excellent low temperature fluidity that reduces engine startup wear in cold weather when used in John Deere engine with a John Deere oil filter - drain intervals may be extended 50% over operator's manual recommendations.



Plus-50, 15W40 for U.S. and Canada

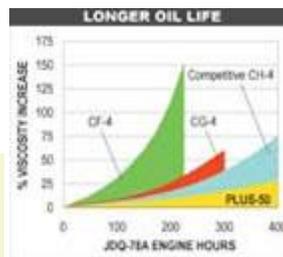
- 1 qt.TY6389
- 1 gal.TY22008
- 2-1/2 gal.TY22061
- 5 gal.TY6390
- 30 gal.TY22010
- 55 gal.TY6391
- 220 gal.TY22093

- 1 LTY22039
- 4 LTY6396
- 10 LTY24508
- 20 LTY22005
- 125 LTY22089
- 205 L.....TY6397
- 1100 L.....TY24323

Plus-50® 15W40 Synthetic Blend Engine Oil Tests

Viscosity Test

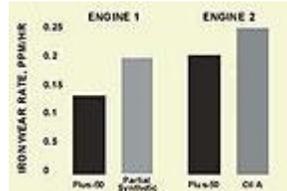
improved ability to inhibit oxidation or high- and minimize the oil's breakdown. After 400 remained within 30% of original viscosity... oils 75% of original viscosity. Plus-50 can periods without danger of breakdown.



Plus-50 has an temperature thickening test hours, Plus-50 competitive CE and CF extend drain interval

Lab test

different engines, less wear in one test second test.



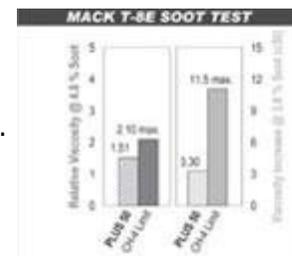
Superior anti-wear

- Feature: additives.
- Advantage: 40% less wear than other brands.
- Benefit: Less wear increases the productive life of the engine.

Soot test

The graph shows the result of Plus-50 Engine Oil in the MACK T-8E Test. This 800-hour test measures the rate of viscosity increase or

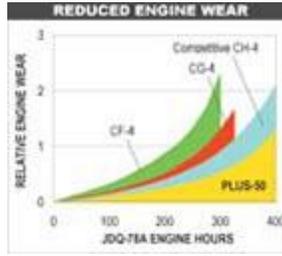
In lab tests using two Plus-50 showed 53% and 15% less wear in a



the thickening of oil due to soot during the drain interval; Plus-50 Engine Oil passes the test with better performance than the reference CH-4 oils. Plus-50 Oil exceeds the industry requirements.

Engine wear test

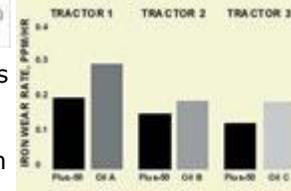
results of an engine wear in JDQ78 tests. The engine is directly related to the number of measured. The engine with Plus-50 Oil wear at the end of the 300-hour test. Plus-50 proper balance of anti-wear additives to increase engine life.



The chart illustrates the amount of wear in the iron particles showed 40% less iron Engine Oil provides the reduce wear and

Field test

In field tests using three different tractors, Plus-50 showed 47%, 33% and 43% less wear. These tests were run with high quality and popular industry oils meeting API Standards.



John Deere designs their oil to match the performance demands of your John Deere equipment. The test data proves that Plus-50 oil can extend engine life and help reduce your maintenance costs. Don't take a chance of damaging your engine by using another brand of oil, use Plus-50 oil from John Deere.

Hydraulic/Transmission Oil Applications

- Hy-Gard® provides the best performance and wear protection for John Deere hydraulic and transmission systems.
- Recommended for equipment with either common system reservoirs or separate transmission and hydraulic systems including those with wet brakes and wet clutches.

Size/part number for U.S.

- 1 gal. TY6354
- 2-1 /2 gal. TY22062
- 5 gal.AR69444
- 30 gal..... TY6238
- 55 gal.AR69445
- 220 gal.TY22092

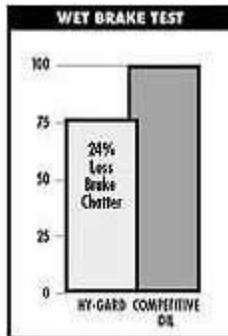
Size/part number for Canada

- 10 L TY6349
- 20 L TY6283
- 125 L Drum TY22090
- 205 L Drum..... TY6267

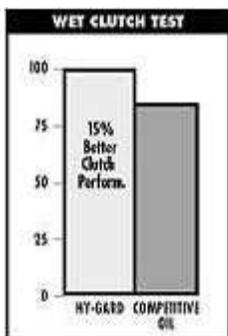
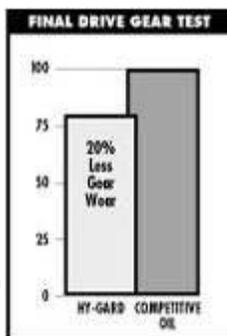
Competitive

Comparisons made against competitive oils tested to meet minimum JDM performance

Features

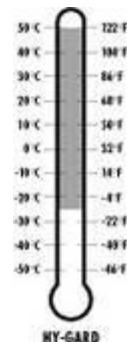


comparisons



were

that had the J20



- Formulated with friction modifiers that provide smooth clutch engagement and high braking capacity with minimum chatter.
- Formulated with a viscosity improver additive to assure correct viscosity at all temperatures; this additive is not found in many competitive oils and yet is critical to equipment performance and component protection.
- Hy-Gard is a 59 viscosity grade @ 40°C.
- Hy-Gard exceeds JDM J20C specification. Some competitive oils may meet these minimum J20 specifications, but none meet the performance requirements placed on Hy-Gard.

Test Analysis

- Viscosity 40°C..... 59 mm²/s
- Viscosity 100°C..... 9.4 mm²/s
- Viscosity Index..... 140 ISO
- Viscosity..... 68
- Density..... 0.89 g/cm³
- Pour point..... -40°C
- Flash point..... 227°C

Service Ratings

- AGCO Massey Ferguson..... M1135, M-1141, M-1139
- AGCO White Farm..... Q-1722, Q-1766, Q-1766B, Q-1802, Q-1826
- Allis-Chalmers, Deutz-Allis, AGCO Allis..... Power Fluid 821XL
- Allison C-4
- Case MS-1207, MS-1210
- Caterpillar TO-2
- Clark MS-68
- Deere All-Weather Hyd. Fluid JDM J21A
- Deutz Hyd. Trans. Fluid
- Dresser Transmission Hyd. Fluid (HMS B806-0002)
- Eaton Hyd. Div. Hyd. Trans. (Form 3-401-123)
- Ford/New Holland..... ESN-M2C41B, M2C134D, M2C48B, M2C48C, M2C, 159B/C, M2C86B, FNHA-2C-200, FNHA-2C-201
- IHC..... B-6
- ISO..... 32, 68
- Kubota.....UDT Hyd. Trans. Fluid
- Oliver..... Type 55
- Sunstrand..... Hydrostatic Trans.
- Zetor..... OT-H, GL-4

- Gears on left of each picture show results of Hy-Gard oil usage.
- Gears on right show the results of using a competitor's oil.

