

# JD PLUS 50 II 15w-40

*Premium engine oil designed to provide advanced lubricant performance in modern low emission engines - Interim Tier 4 (iT4) engines.*

## Application

Plus-50 II premium engine oil has been designed to provide advanced lubricant performance in modern low emission engines, and to meet the requirements of heavy-duty off-road applications, as well as lighter-duty applications including on-road vehicles.

Plus-50 II is recommended for four-stroke naturally aspirated, turbocharged and supercharged diesel engines with Diesel Particulate Filters (DPF), Diesel Oxidation Catalysts (DOC), and Exhaust Gas Recirculation (EGR).

Examples of applications include: heavy-duty off-road equipment, vehicles with John Deere iT4 engines, vehicles requiring CJ-4 oil, on-road trucks, marine engines, natural gas engines, pickups, and automobiles.

Plus-50 II is also recommended for use in all legacy diesel engine applications where Plus-50 has been in use.

## Performances features and benefits

- Exceeds API CJ-4 performance level for diesel engines.
- Exceeds API SM performance level for gasoline engines.
- Formulated specifically to inhibit oxidation, deposits, corrosion, and wear with superior soot control.
- Reduces maintenance costs and downtime.
- Provides maximum sludge and varnish control.
- Excellent low-temperature fluidity reduces engine wear in cold weather.
- Drain intervals may be extended up to 500 hours when used with John Deere filters in John Deere engines. (Review Operator Manual or consult with dealer for details.)
- Low ash technology to support diesel particulate filter service life.

## JDQ-78X Test

In the development of Plus-50 II, John Deere engineers test the oil under the most extreme conditions using the JDQ-78X test. The JDQ-78X test is a John Deere engine that is run for **500 hours at full load and high heat** to thoroughly test the capabilities of the oil. At the end of the test we evaluate the engine parts and the oil to determine how well the oil protects the engine and how long it will last under such extreme conditions.

## Specifications & Approvals

- ✓ **API** : CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, SM, SL, SJ
- ✓ **ACEA** : E9, E7

Major diesel engine manufacturers' requirements:

- ✓ John Deere JDQ-78X
- ✓ Man M3275
- ✓ MTU Type 2.1
- ✓ Mercedes Benz 228.31
- ✓ Volvo VDS-4, VDS-3, VDS-2
- ✓ Mack EO-O Premium Plus 07
- ✓ Renault RLD, RXD, RD
- ✓ Cummins CES 20081, 77, 76), 75
- ✓ Detroit Diesel 93K218, 93K214
- ✓ Caterpillar ECF-3, ECF-2, ECF-1-a, T0-2

## Health & Safety

JD PLUS 50 II is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained. For further guidance on Product Health & Safety, refer to the appropriate John Deere Product Safety Data Sheet

## Protect the environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water

## Typical Physical Characteristics

Characteristics	Typical Value
Viscosity @ 40°C.....	128.0 cSt
Viscosity @ 100°C.....	15.6 cSt
Viscosity index.....	127
HTHS viscosity @ 150°C.....	4.3 cP
Pour point.....	-36°C
Flash point.....	225°C
Total Base Number (TBN) mg KOH/g.....	10.5
Sulfated ash level.....	1.0 mass %

*These characteristics are typical of current production. Whilst future production will conform to manufacturer specification, variations in these characteristics may occur.*

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