

# Plus-50™ II Premium Engine Oil (15W-40)



JOHN DEERE



## Features/Benefits

- Exceeds API CK-4 performance level for diesel engines
- Exceeds API SN performance level for gasoline engines
- Reduces maintenance costs and downtime
- Formulated specifically to inhibit oxidation, deposits, corrosion & engine wear as well as providing superior soot control
- Provides maximum sludge and varnish control
- Excellent low-temperature fluidity reduces engine wear in cold weather
- Low ash technology to support diesel particulate filter service life
- Drain intervals may be extended up to 500 or 750 hours when used with John Deere filters in John Deere engines (review Operator Manual or consult with dealer for details)

## Applications

- For use in heavy-duty off-road applications, on-road trucks, marine engines, natural gas engines, pickups and automobiles
- Backwards compatible for use in all legacy diesel engine applications where Plus-50 may have been applied
- For use in John Deere Tier 4 engines and all diesel engines requiring API CK-4 oil

# Plus-50™ II, Still Better

John Deere Engineers design their first exclusive formulation.

The first JDQ 78 Test is introduced.



1988

API CE/SG

JD Plus-50 introduced.



1998

API upgrades to CF-4/SG  
**CF-4**

API upgrades to CG-4/SH  
**CG-4**

API upgrades to CH-4/SJ  
**CH-4**

The JDQ 78A test is introduced.

2005

API upgrades to CI-4/SL  
**CI-4**

API upgrades to CI-4+/SM  
**CI-4+**

Plus-50 II & JDQ 78X is introduced in 2009. (2010 in AUS/NZ).

**No Change Required**

Exceeds Industry Standards. New Deere Proprietary Test.



Current

API upgrades to CK-4/SN  
**CK-4**

## Plus-50 II Engine Oil performs above industry standards.

Perhaps you've heard, the requirements for engine oil compliance were recently raised to the new CK-4 standards. What does that mean? For those that use our Plus-50 II Engine Oil, it means absolutely nothing. That's because Plus-50 II is still better than even the new standards, exceeding requirements before they even set the bar.

Plus-50 II Engine Oil. Still better. Still guaranteed. Still available only at your local John Deere Dealer.

### PLUS-50 II (15W-40) – AUSTRALIA

Size	Part Number	Qty
5 L	CP6657	4
20 L	CP6658	1
205 L	CP6659	1
1000 L	CP6660	1

### PLUS-50 II (15W-40) – NEW ZEALAND

Size	Part Number	Qty
5 L	CP6657NZ	4
20 L	CP6658NZ	1
205 L	CP6659NZ	1
1000 L	CP6660NZ	1

### PHYSICAL PROPERTIES

Test Parameters	15W-40
Viscosity at 40°C	128.0 cSt
Viscosity at 100°C	15.6 cSt
Viscosity index	127
HTHS Viscosity at 150°C	4.3 cP
Pour point	-36°C
Flash point	225°C
Total base number (TBN)	10.5 mg KOH/g

### SERVICE RATINGS

#### Major diesel engine manufacturers' requirements:

Mack	EOS-4.5, EO-O Premium Plus 07, EO-O Premium Plus 03
Cummins	CES 20086, CES 20081, CES 20077, CES 20076, CES 20075
Volvo	VDS-4.5, VDS-4, VDS-3, VDS-2
Mercedes Benz	228.31
Renault	RLD, RXD, RD
Detroit Diesel	93K222, 93K218, 93K214
Volvo	VDS-4.5
MAN	M3275
MTU	Type 2.1
Caterpillar	ECF-3, ECF-2, ECF-1-a, TO-2

API service categories: CK-4, CJ-4, CI-4 +, CI-4, CH-4, CG-4, SN, SM, SL, SJ  
ACEA (Europe) oil sequences: E9, E7 JASO (Japan) oil standards: DH-2

# Plus-50 II Product Testing and Development

In the development of Plus-50 II, John Deere engineers tested the oil under the most extreme conditions. John Deere engines were run for 500 hours non-stop at full load and high heat to thoroughly test the capabilities of the oil. At the end of the test we evaluated 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.



## Engine Oil Warranty

John Deere guarantees Plus-50 II Premium Engine Oil will meet or exceed the performance needs of diesel engines.

Regardless of hours or kilometres, John Deere Limited will pay for any damages (parts and labour) 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

Plus-50 II is the best oil for your John Deere equipment because it's developed right alongside John Deere engines.

Other features and benefits include:

- Superior protection for current and older engines
- Extended drain intervals up to 500 or 750\* hours when using Plus-50 II and John Deere filters in a John Deere engine
- Formulated specifically to inhibit wear, corrosion, sludge, soot, varnish and oxidation
- Delivers excellent low-temperature performance
- Proven performance in low-emission engines
- Full-fleet solution

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

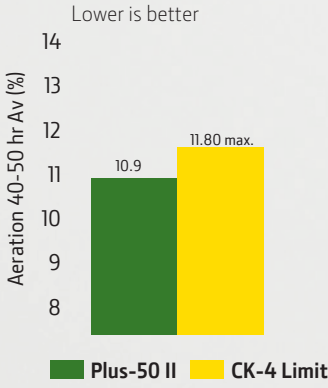
- Records showing that the engine was serviced according to the manufacturer's recommendations
- Submit an oil sample from the failed engine for analysis to determine if oil is defective
- Make available the failed engine

\*500 hour drain interval applies to John Deere diesel engines when the following criteria are met: 1. Engine is equipped with an extended drain interval oil pan. 2. Machine operates with Plus-50 II engine oil API CK-4. 3. Machine uses a John Deere engine oil filter 4. Machine uses only ultra low sulphur diesel fuel.

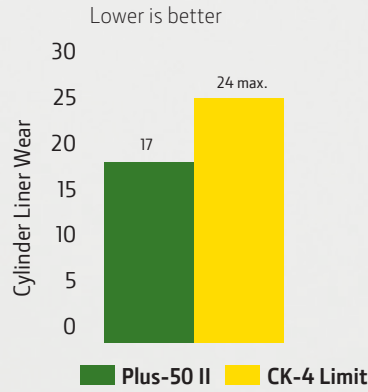
# Other Engine Tests for CK-4 Minimums

In addition to our own extensive testing, we also participate with engine tests that define the minimum requirements of API CK-4 oil. These graphs demonstrate the magnitude of performance Plus-50™ II has when compared to these minimum specifications.

## COAT



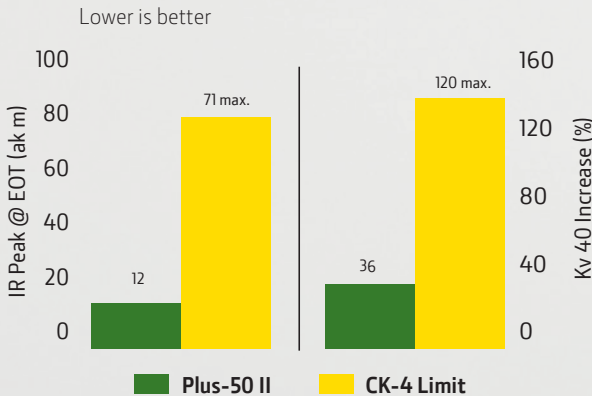
## MACK T-12



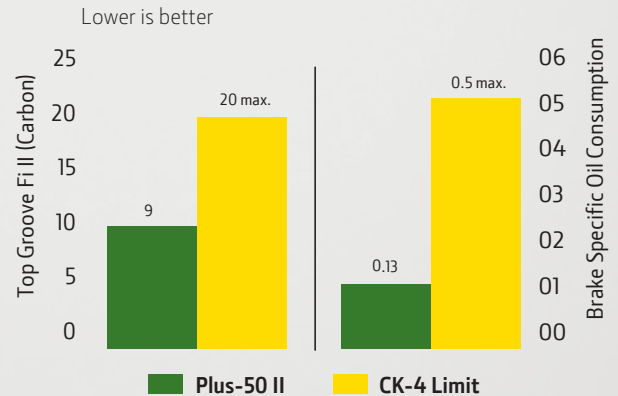
## GENERAL MOTORS IIG



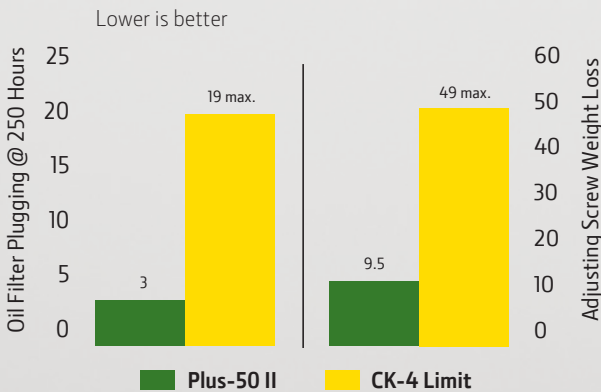
## VOLVO T-13



## CATERPILLAR 1N



## CUMMINS ISM



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