

# Store 5 - Cross Lanes JOHN DEERE 1FF350GXVEE809964 Component Diesel Engine

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION	
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No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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Cylinder, crank, or cam shaft wear is indicated.

### CONTAMINATION

There is no indication of any contamination in the oil.

#### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0039319	LEC0036030	LEC0023710
Sample Date		Client Info		12 Apr 2023	03 Oct 2022	08 Nov 2021
Machine Age	hrs	Client Info		7031	6466	5875
Oil Age	hrs	Client Info		565	591	809
Filter Age	hrs	Client Info		565	591	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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Iron	ppm	ASTM D5185m	>51	🔺 124	🔺 187	<u> </u>
Chromium	ppm	ASTM D5185m	>11	2	4	2
Nickel	ppm	ASTM D5185m	>5	3	5	5
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	3	7	5
Lead	ppm	ASTM D5185m	>26	2	3	2
Copper	ppm	ASTM D5185m	>26	2	3	1
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Ciliaara			100	10		 
Silicon	ppm	ASTM D5185m	>!20	12	11	5
Potassium	ppm	ASTM D5185m	>20	2	6	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	0/	WC Method	0	NEG	NEG	NEG
Soot %	%	*ASTM D7844 *ASTM D7624	>3	0.5 9.8	0.6	0.3
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20 >30	9.8 22.3	13.9 24.8	20.3
Silt	scalar	*Visual	>30 NONE			
Debris	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
	Jouran	VISUUI	20.21		NEG	NEG
Sodium	ppm	ASTM D5185m	>31	3	2	1
Boron	ppm	ASTM D5185m		113	46	11
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		168	209	88
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		575	707	947
Calcium	ppm	ASTM D5185m		1543	1654	1132
Phosphorus	ppm	ASTM D5185m		878	949	1030
Zinc	ppm	ASTM D5185m		1073	1146	1262
Sulfur	ppm	ASTM D5185m		3065	3675	2912
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	20.9	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.0	10.0	9.8
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	14.0	13.8
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