



RECOMMENDATION

## Area Store 4 - Fairmont [145965] **JOHN DEERE 350G 1FF350GXKHF812003** Component Diesel Engine

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

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.

WEAR
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Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

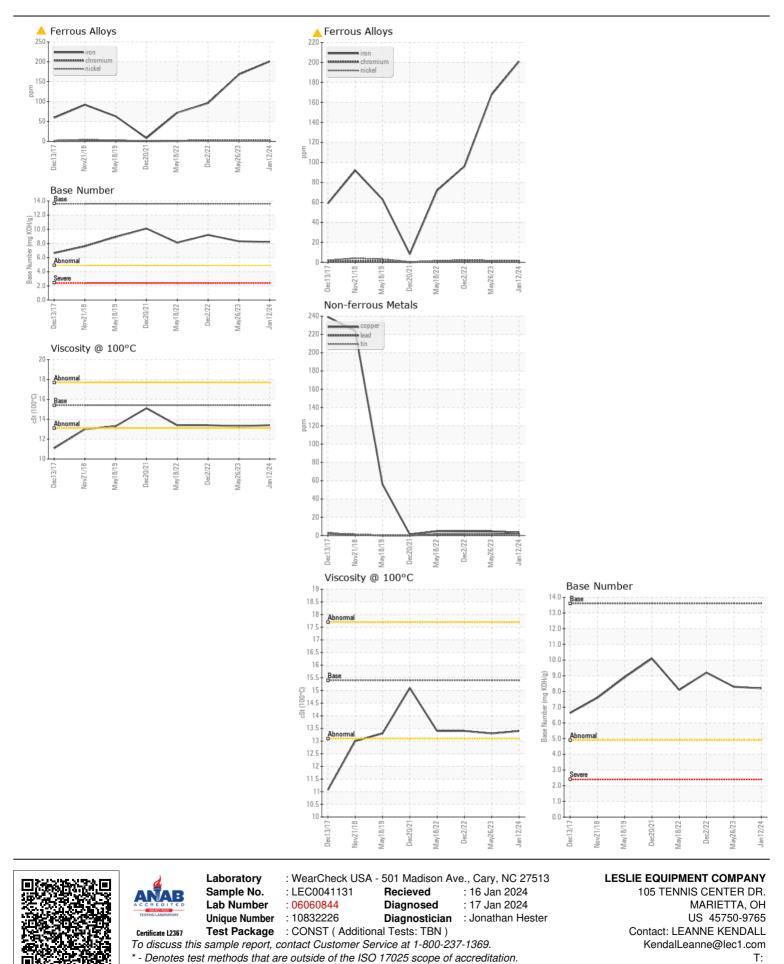
## CONTAMINATION

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.

5 50 11 15 10	40 (7	GAL)				
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041131	LEC0036968	LEC0034499
Sample Date		Client Info		12 Jan 2024	26 May 2023	02 Dec 2022
Machine Age	hrs	Client Info		5013	4296	3654
Oil Age	hrs	Client Info		717	642	590
Filter Age	hrs	Client Info		717	642	590
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	<b>A</b> 201	168	<mark>/</mark> 96
Chromium	ppm	ASTM D5185m	>11	2	2	2
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	6	2	5
Lead	ppm	ASTM D5185m	>26	2	1	1
Copper	ppm	ASTM D5185m	>26	3	4	5
Tin	ppm	ASTM D5185m	>4	2	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>!20	10	8	8
Potassium	ppm	ASTM D5185m	>20	2	4	<1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.8	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.6	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	24.6	25.2
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	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	scalar	*Visual	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>31	3	0	6
Boron	ppm	ASTM D5185m	201	140	144	168
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		258	279	244
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		836	770	788
Calcium	ppm	ASTM D5185m		1441	1525	1553
Phosphorus	ppm	ASTM D5185m		886	881	851
Zinc		ASTM D5185m		1087	1077	1015
Sulfur	ppm ppm	ASTM D5185m		2852	3130	3369
Oxidation	Abs/.1mm	*ASTM D5185111	>25	2052 17.1	18.2	18.7
Base Number (BN)		ASTM D7414 ASTM D2896	>25	8.2	8.3	9.2
Visc @ 100°C	mg KOH/g	ASTM D2090 ASTM D445				9.2 13.4
visc @ 100-C	cSt	ASTIVI D445	15.4	13.4	13.3	13.4



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Page 2 of 2