

{unassigned} Machine Id JOHN DEERE 331G 1T0331GMELF370068 Component Diesel Engine Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates for total unit time.	Sample Number		Client Info		LEC0046526	LEC0035701	LEC0015795
	Sample Date		Client Info		21 Dec 2023	20 Jan 2023	20 Oct 2020
	Machine Age	hrs	Client Info		1295	1123	497
	Oil Age	hrs	Client Info		172	626	497
	Filter Age	hrs	Client Info		172	626	497
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	46	A 77	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	2	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	2
	Aluminum	ppm	ASTM D5185m	>31	6	7	4
	Lead	ppm	ASTM D5185m	>26	0	2	<1
	Copper	ppm	ASTM D5185m	>26	15	<u> </u>	<u> </u>
	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
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	16	A 27	5 6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	2	<1
	Fuel		WC Method	>2.1	<1.0	0.3	A 3.3
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.7	0.2
	Nitration	Abs/cm		>20	9.2	14.2	9.6
	Sulfation	Abs/.1mm	*ASTM D7415		22.4	29.9	26.3
	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 Emulsified Water	scalar	*Visual	NORML	NORML	NORML	NORML
		scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	5	8
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		212	60	211
	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		255	256	233
	Manganese	ppm	ASTM D5185m		1	2	1
	Magnesium	ppm	ASTM D5185m		812	830	742
	Calcium	ppm	ASTM D5185m		1550	1847	1688
	Phosphorus	ppm	ASTM D5185m		936	942	864
	Zinc	ppm	ASTM D5185m		1123	1238	1091
	Sulfur	ppm	ASTM D5185m	05	2814	3225	2825
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	28.9	24.5

9.0

14.2

Base Number (BN) mg KOH/g ASTM D2896 13.6

ASTM D445 15.4

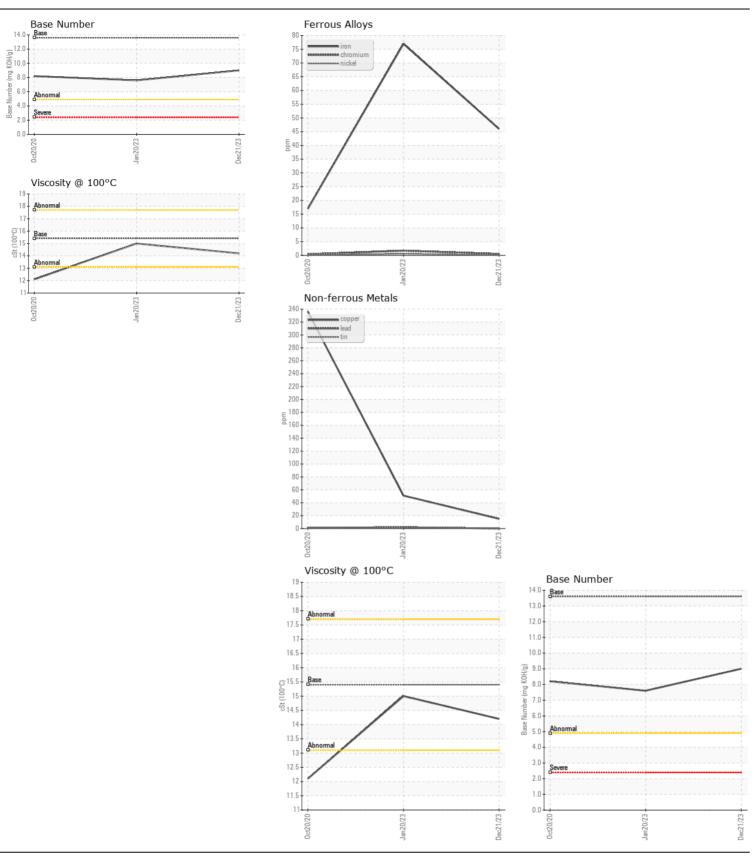
Visc @ 100°C cSt

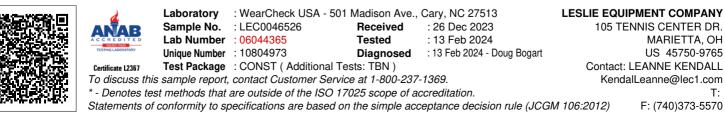
7.6

15.0

8.2

12.1





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Submitted By: STORE5 - CROSS LANES - NEIL BALL