



Store 9 - Marietta [RO#152288] **JOHN DEERE 350G 1FF350GXJKF813712 Diesel Engine**

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0051142	LEC0046218	LEC004342
	Sample Date		Client Info		28 Jun 2024	28 Nov 2023	05 Jul 2023
	Machine Age	hrs	Client Info		3622	3134	2662
	Oil Age	hrs	Client Info		488	472	431
	Filter Age	hrs	Client Info		488	472	431
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMA
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	41	12	A 81
	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		1	7	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	2	1
	Lead	ppm	ASTM D5185m	>26	0	0	0
	Copper	ppm	ASTM D5185m	>26	0	<1	5
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	6	6	6
	Potassium	ppm	ASTM D5185m		2	2	1
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		- <1.0	<1.0	<1.0
	Water	,0	WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.1	0.4
	Nitration	Abs/cm	*ASTM D7624		8.1	5.7	9.1
	Sulfation	Abs/.1mm	*ASTM D7415		20.9	19.9	22.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<u>_</u> 31	2	<1	4
	Boron		ASTM D5185m	201	225	210	209
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm ppm	ASTM D5185m		0	2	0
	Molybdenum	ppm	ASTM D5185m		227	94	247
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		856	631	813
	Calcium	ppm	ASTM D5185m		1560	1389	1531
	Phosphorus	ppm	ASTM D5185m		926	635	869
	Zinc	ppm	ASTM D5185m		1128	803	1069
	Sulfur	ppm	ASTM D5185m		3653	3855	3335
	Oxidation	Abs/.1mm	*ASTM D5105111	>25	15.5	13.7	16.7
	Base Number (BN)				9.0	9.3	9.1
		nig Kon/g		10.0	5.0	5.5	10.0

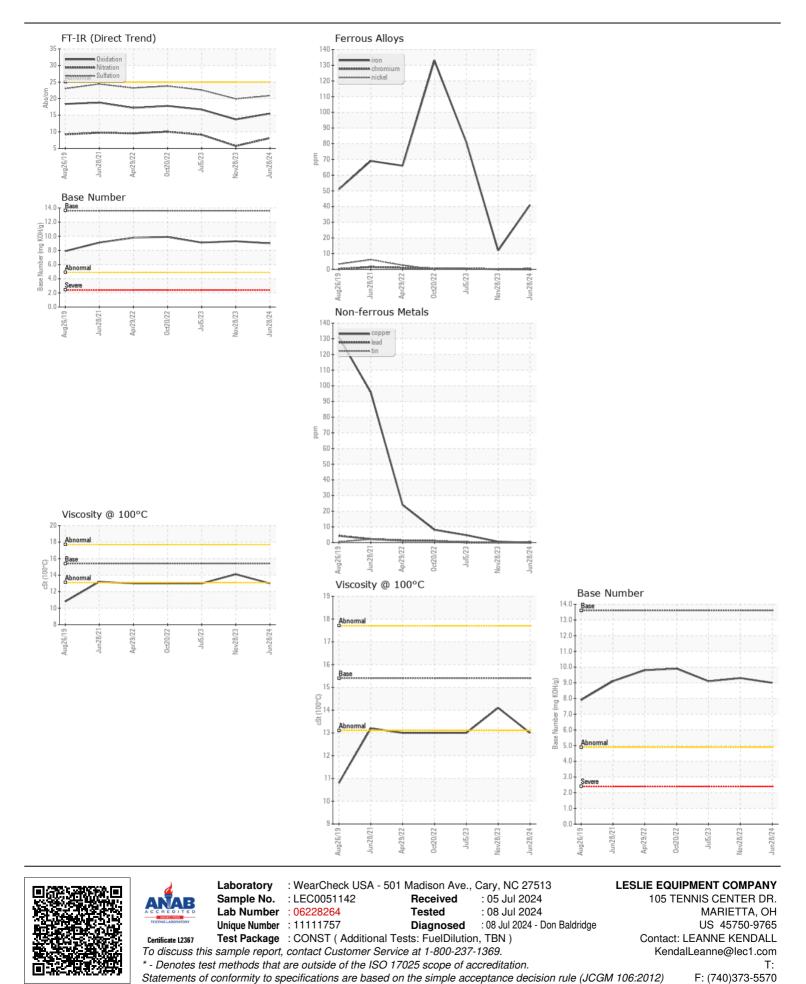
Visc @ 100°C cSt

14.1

13.0

13.0

ASTM D445 15.4



Submitted By: STORE 2 - BEAVER - CASEY TONEY Page 2 of 2