



## Area **Store 9 - Marietta** Machine Id **JOHN DEERE 350G 74344 (S/N 1FF350GXLJF812340)**

Component Center Diesel Engine

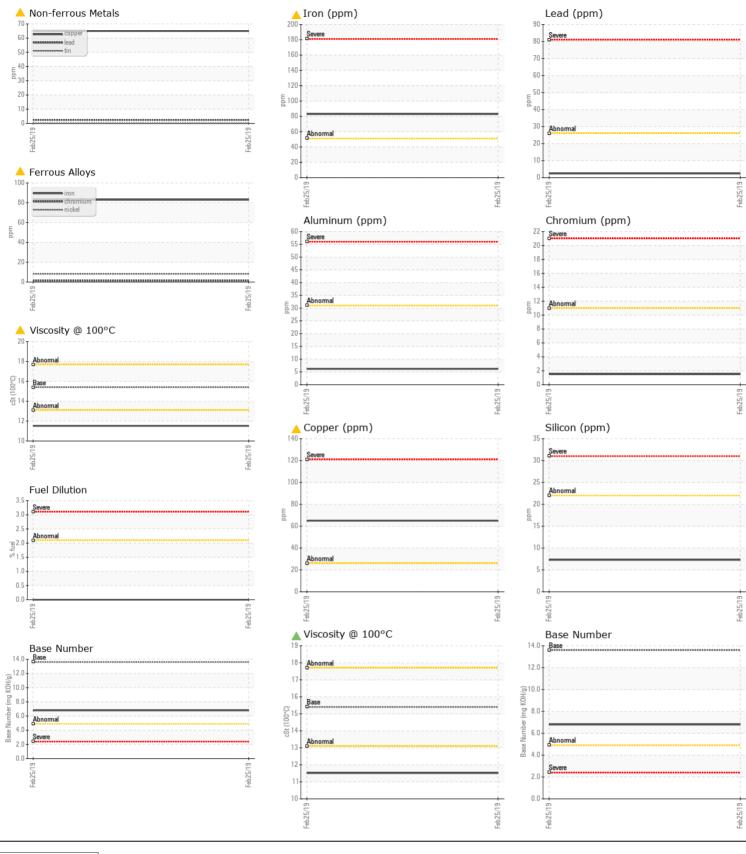
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LECP4662623		
	Sample Date		Client Info		25 Feb 2019		
	Machine Age	hrs	Client Info		1169		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	<b>A</b> 83		
The iron level is abnormal. The copper level is abnormal. Valve wear is indicated.	Chromium	ppm	ASTM D5185m	>11	2		
	Nickel	ppm	ASTM D5185m	>5	<b>a</b> 8		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>31	6		
	Lead	ppm	ASTM D5185m	>26	2		
	Copper	ppm	ASTM D5185m	>26	<b>6</b> 5		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>		304141	Visual	NONE			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7		
	Potassium	ppm	ASTM D5185m	>20	22		
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	10.2		
	Sulfation	Abs/.1mm	*ASTM D7415		26.2		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
<u></u>		304141	Visual	20.21			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	10		
	Boron	ppm	ASTM D5185m		58		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		181		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		700		
	Calcium	ppm	ASTM D5185m		1818		
	Phosphorus	ppm	ASTM D5185m		829		
	Zinc		ASTM D5185m		1035		
	Sulfur	ppm ppm	ASTM D5185m		2411		
	Oxidation		*ASTM D5185111	> 2F	2411		
		Abs/.1mm					
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.8		

Visc @ 100°C cSt

ASTM D445 15.4

**11.52** 



Contact/Location: ROBBIE CLIFTON - BRIMAR