

## Machine Id JOHN DEERE 850L 1T0850LXLMPL109041 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

					~		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0209918		
	Sample Date		Client Info		28 May 2024		
	Machine Age	hrs	Client Info		5018		
	Oil Age	hrs	Client Info		524		
	Filter Age	hrs	Client Info		524		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		36		
Valve wear is indicated.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>5	<b>▲</b> 21		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		4		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	14		
CONTAMINATION	Potassium	ppm	ASTM D5185m		▲ 34		
Sodium and/or potassium levels are high.	Fuel	ppiii	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol	%	*ASTM D2982	/ 0.121	NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	6.9		
	Sulfation	Abs/.1mm	*ASTM D7415		20.3		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	🔺 234		
The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm	ASTM D5185m		160		
	Barium	ppm	ASTM D5185m		<1		
01.	Molybdenum	ppm	ASTM D5185m		283		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		866		
	Calcium	ppm	ASTM D5185m		1467		
	Phosphorus	ppm	ASTM D5185m		947		
	Zinc	ppm	ASTM D5185m		1113		
	Sulfur	ppm	ASTM D5185m		3387		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3		

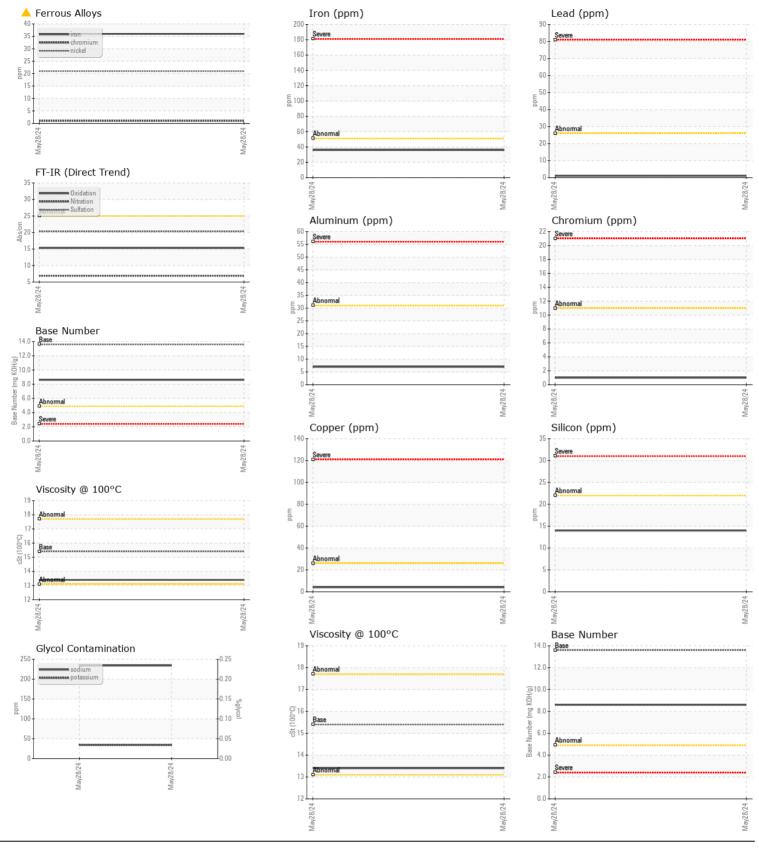
8.6

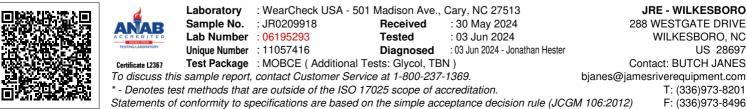
13.4

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

ASTM D445 15.4

Visc @ 100°C cSt





Contact/Location: BUTCH JANES - JAMWIL Page 2 of 2