

Machine Id 80361458 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212433	JR0141373	
	Sample Date		Client Info		19 Apr 2024	18 Aug 2023	
	Machine Age	hrs	Client Info		755	389	
	Oil Age	hrs	Client Info		389	389	
	Filter Age	hrs	Client Info		0	389	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				NORMAL	NORMAL	
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WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	18	19	
	Chromium	ppm	ASTM D5185m	>20	6	5	
	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	7	3	
	Lead	ppm	ASTM D5185m	>40	0	<1	
	Copper	ppm	ASTM D5185m	>330	7	10	
	Tin	ppm	ASTM D5185m	>15	<1	1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	21	23	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	18.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	3	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		290	343	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		4	3	
	Molybdenum	ppm	ASTM D5185m		217	42	
	Manganese	ppm	ASTM D5185m		2	3	
	Magnesium	ppm	ASTM D5185m		727	128	
	Calcium	ppm	ASTM D5185m		1892	3644	
	Phosphorus	ppm	ASTM D5185m		952	1004	
	Zinc	ppm	ASTM D5185m		1132	1209	
	Sulfur	ppm	ASTM D5185m		3628	4287	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	11.8	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.9	10.0	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.7	12.7	



