

Machine Id JOHN DEERE 944K 1DW944KXAML703645 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (12 GAL)

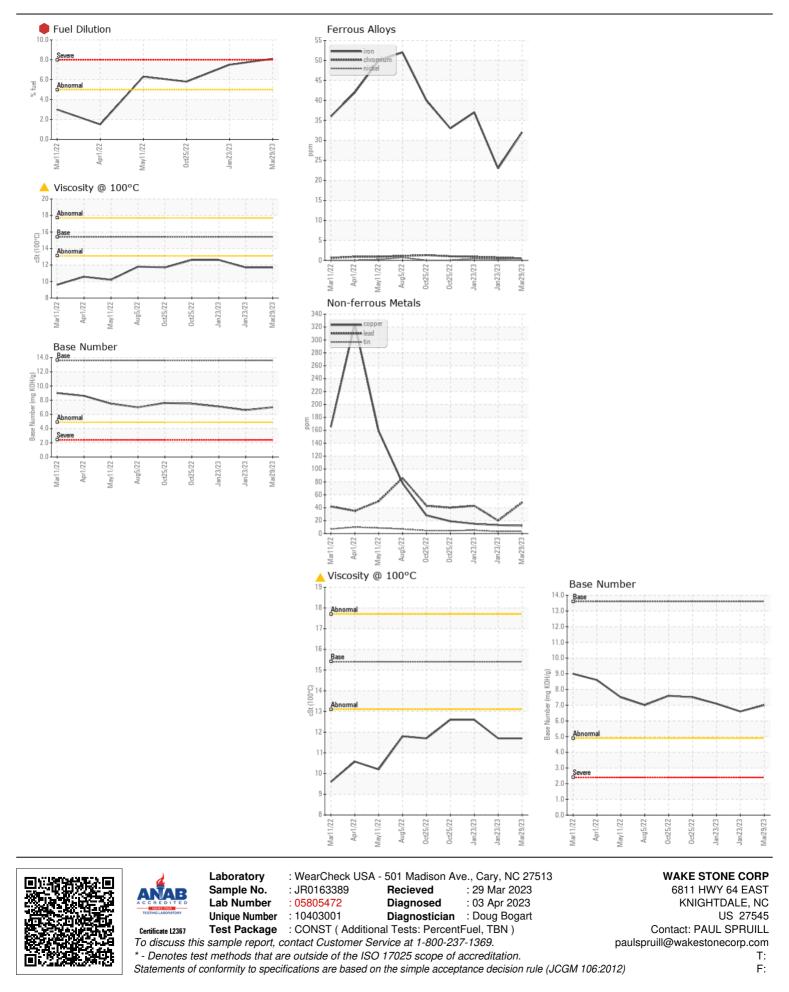
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0163389	JR0156439	JR015667
	Sample Date		Client Info		29 Mar 2023	23 Jan 2023	23 Jan 202
	Machine Age	hrs	Client Info		2545	2110	2037
	Oil Age	hrs	Client Info		435	545	450
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changeo
	Sample Status				SEVERE	ABNORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185m	>51	32	37	23
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	8	5
	Lead	ppm	ASTM D5185m		48	43	20
	Copper	ppm	ASTM D5185m		12	15	13
	Tin	ppm	ASTM D5185m		4	5	3
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u></u>	10	12	9
SONTAMINATION	Potassium	ppm	ASTM D5185m		9	13	6
There is a high amount of fuel present in the oil.	Fuel	%	ASTM D3103ml		8 .1	▲ 7.5	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.8	1.1	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	12.7	12.9	11.5
	Sulfation	Abs/.1mm	*ASTM D7024		27.4	29.9	26.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORI
	Odor	scalar	*Visual	NORML	NORML	NORML	NOR
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	37	28	8
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm	ASTM D5185m		24	20	31
	Barium	ppm	ASTM D5185m		0	12	11
	Molybdenum	ppm	ASTM D5185m		249	245	193
	Manganese	ppm	ASTM D5185m		2	2	1
	Magnesium	ppm	ASTM D5185m		762	762	754
	Calcium	ppm	ASTM D5185m		1414	1445	1328
	Phosphorus	ppm	ASTM D5185m		769	782	765
	Zinc	ppm	ASTM D5185m		998	984	985
	Sulfur	ppm	ASTM D5185m		2893	3158	3118
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.8	25.3	21.1
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.0	6.6	7.1
	Vier @ 10000	- 0+		1 - 4	A 44 7	A 44 7	10.0

Visc @ 100°C cSt ASTM D445 15.4

11.7

11.7

12.6



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