

## Machine Id JOHN DEERE 844K 1DW844KXKGF674415 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

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		JR0199964	JR0180428	JR0166067
	Sample Date		Client Info		18 Mar 2024	30 Oct 2023	07 Aug 2023
	Machine Age	hrs	Client Info		17940	17515	17001
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	MARGINAL	-
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		13	10	9
	Chromium	ppm	ASTM D5185m		<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	2	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		11	9	5
	Lead	ppm	ASTM D5185m		<1	0	1
	Copper	ppm	ASTM D5185m		3	5	5
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>~</u> 22	9	8	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		3	3	<1
Fuel content negligible. No other contaminants were detected in the oil.	Fuel	%	ASTM D3103III		2.2	4.4	5.2
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	13	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.6	9.4
	Sulfation	Abs/.1mm	*ASTM D7624		21.9	21.4	22.2
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	4	3
The city is served then normal. The DN result indicates that	Boron	ppm	ASTM D5185m		240	180	182
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		251	236	253
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		847	814	894
	Calcium	ppm	ASTM D5185m		1427	1358	1481
	Phosphorus	ppm	ASTM D5185m		1052	925	971
	Zinc	ppm	ASTM D5185m		1177	1103	1173
	Sulfur	ppm	ASTM D5185m		3510	3227	4159
	Ovidation	Abo/ 1mm		. OF	16.6	10.0	10.0

Oxidation

Visc @ 100°C cSt

16.2

8.0

11.9

16.6

8.1

11.9

Abs/.1mm \*ASTM D7414 >25

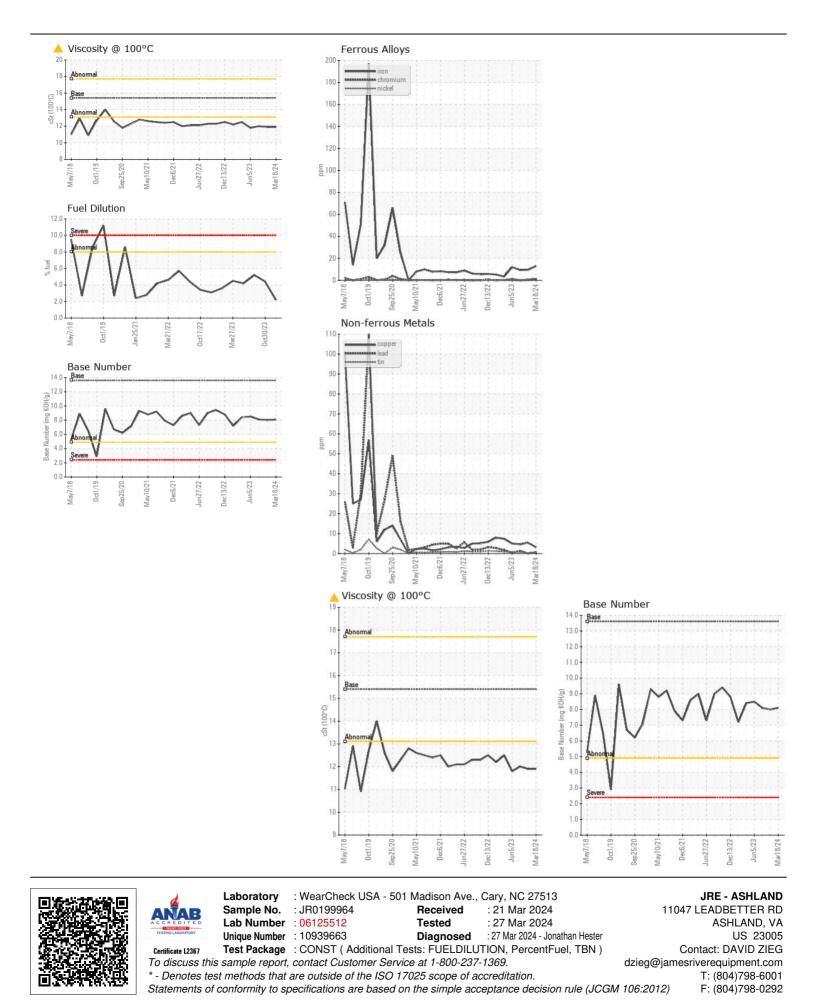
ASTM D445 15.4

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

16.3

8.1

**12.0** 



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Contact/Location: DAVID ZIEG - JAMASH