

Machine Id JOHN DEERE 844L 1DW844LXCNL714937 Component Diesel Engine Fluid

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

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (*	(13)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WE0006841	WE0006373	WE0005169
	Sample Date		Client Info		11 Apr 2024	02 Feb 2024	20 Oct 2023
	Machine Age	hrs	Client Info		3472	3039	2456
	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				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	17	23	14
	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	5	4
	Lead	ppm	ASTM D5185m		2	5	3
	Copper	ppm	ASTM D5185m	>26	5	9	6
	Tin	ppm	ASTM D5185m	>4	2	1	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	7	12	9
	Potassium	ppm	ASTM D5185m		2	3	<1
	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.5	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.1	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	24.0	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	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	0	3
	Boron	ppm	ASTM D5185m		165	201	191
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	6	0
	Molybdenum	ppm	ASTM D5185m		222	353	257
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		809	1104	852
	Calcium	ppm	ASTM D5185m		1388	1614	1452
	Phosphorus	ppm	ASTM D5185m		815	915	911
	Zinc	ppm	ASTM D5185m		984	1297	1105
	Sulfur	ppm	ASTM D5185m		3359	3587	3152
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	17.4	16.2
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6	7.5	7.9
	1/1	- 01		4 - 4	10.5	40.4	10.0

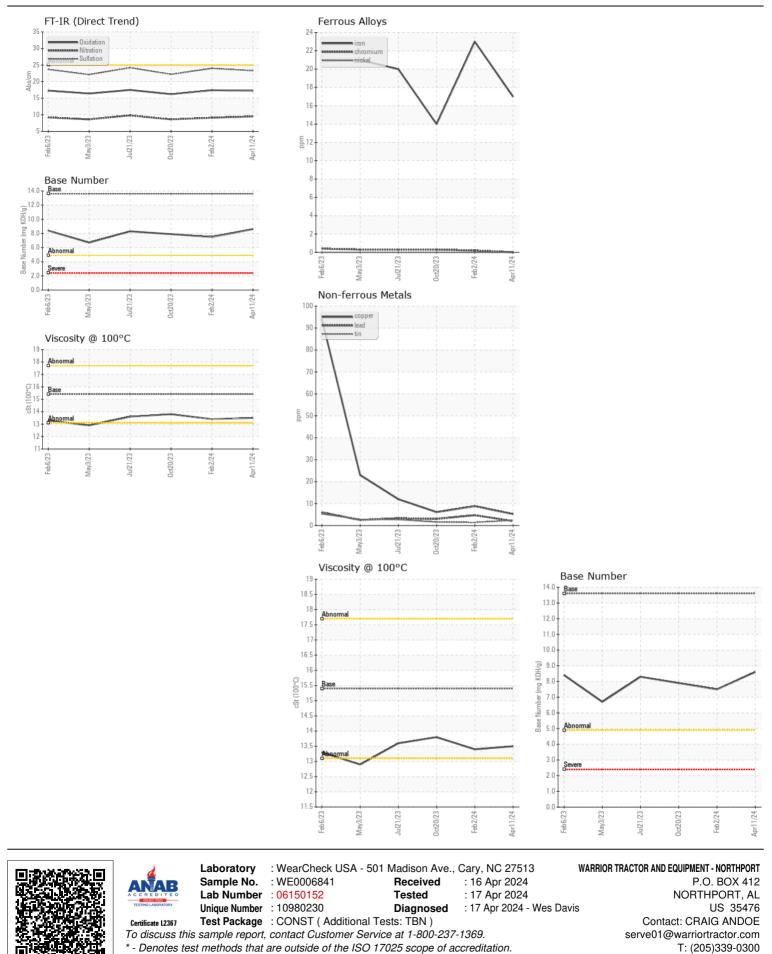
Visc @ 100°C cSt

ASTM D445 15.4

13.4

13.8

13.5



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: CRAIG ANDOE - WARNOR Page 2 of 2

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