

## Machine Id JOHN DEERE 624L 1DW624LZAKF695860 Component Diesel Engine

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

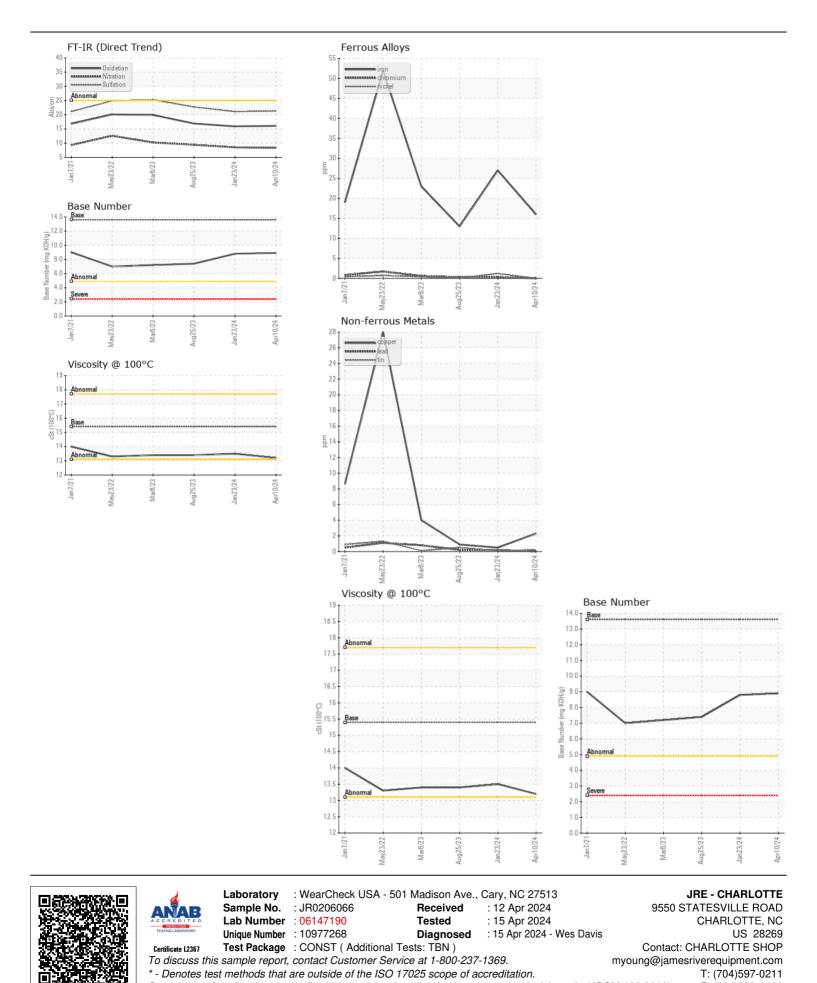
JUNN DEERE ENGINE UIL PLUS 50 II 15W40 (	(GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0206066	JR0198363	JR0178026
	Sample Date		Client Info		10 Apr 2024	23 Jan 2024	25 Aug 2023
	Machine Age	hrs	Client Info		6546	6102	5586
	Oil Age	hrs	Client Info		444	516	4647
	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	16	27	13
	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	6	5
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		2	<1	<1
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	< <u>22</u>	7	14	6
	Potassium	ppm	ASTM D5185m		، <1	4	4
There is no indication of any contamination in the oil.	Fuel	ρριιι	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.5	9.4
	Sulfation	Abs/.1mm	*ASTM D7415		21.3	21.1	22.7
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	3
	Boron	ppm	ASTM D5185m	201	263	291	168
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	<1	0
	Molybdenum	ppm	ASTM D5185m		247	249	241
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		834	825	850
	Calcium	ppm	ASTM D5185m		1419	1358	1437
	Phosphorus	ppm	ASTM D5185m		942	928	835
	Zinc	ppm	ASTM D5185m		1108	1076	1052
	Sulfur	ppm	ASTM D5185m		3556	2935	3677
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	15.9	16.9
	Base Number (BN)				8.9	8.8	7.4
	Vies @ 10000	- 01		45.4	10.0	10.5	10.4

Visc @ 100°C cSt ASTM D445 15.4

13.4

13.5

13.2



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (704)596-6198