

JOHN DEERE 748L 1DW748LBCMF709667

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 QTS)

	20 0 1 3						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0213813	JR0200626	JR0186543
	Sample Date		Client Info		23 May 2024	06 Feb 2024	30 Nov 2023
	Machine Age	hrs	Client Info		6994	6559	6144
	Oil Age	hrs	Client Info		435	415	593
	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	6	10
	Chromium	ppm	ASTM D5185m	>11	2	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	4	1	1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	1	0	0
	Aluminum	ppm	ASTM D5185m	>31	7	4	5
	Lead	ppm	ASTM D5185m	>26	<1	0	0
	Copper	ppm	ASTM D5185m	>26	5	0	1
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	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	>22	14	6	8
	Potassium	ppm	ASTM D5185m	>20	4	0	4
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.5	8.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	22.1	21.6
	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	2	2	0
	Boron	ppm	ASTM D5185m		199	193	208
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		2	0	0
	Molybdenum	ppm	ASTM D5185m		226	241	290
	Manganese	ppm	ASTM D5185m		1	<1	0
	Magnesium	ppm	ASTM D5185m		711	792	844
	Calcium	ppm	ASTM D5185m		1560	1319	1603
	Phosphorus	ppm	ASTM D5185m		872	930	971
	Zinc	ppm	ASTM D5185m		1063	1095	1160
	Sulfur	ppm	ASTM D5185m		3010	2906	3479
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	16.2	15.5
	Base Number (BN)				8.7	8.1	8.9
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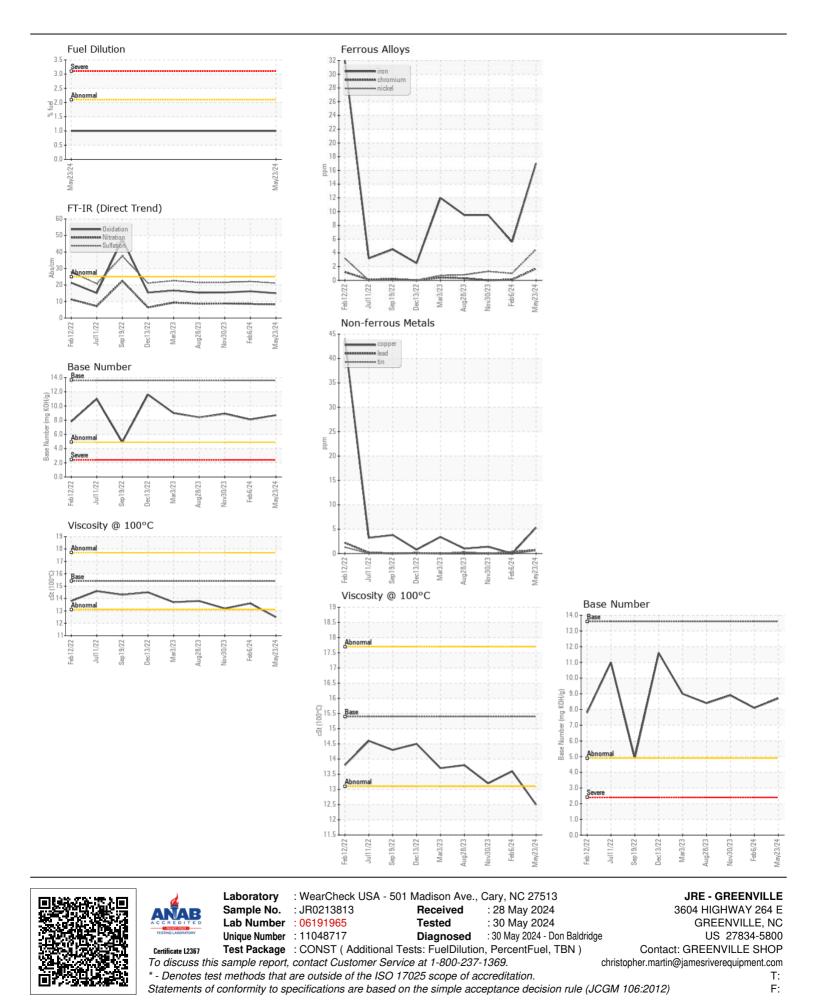
Visc @ 100°C cSt

ASTM D445 15.4

13.2

13.6

12.5



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