

JOHN DEERE 843L-II 1DW843LBVNF715950 Component Diesel Engine

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

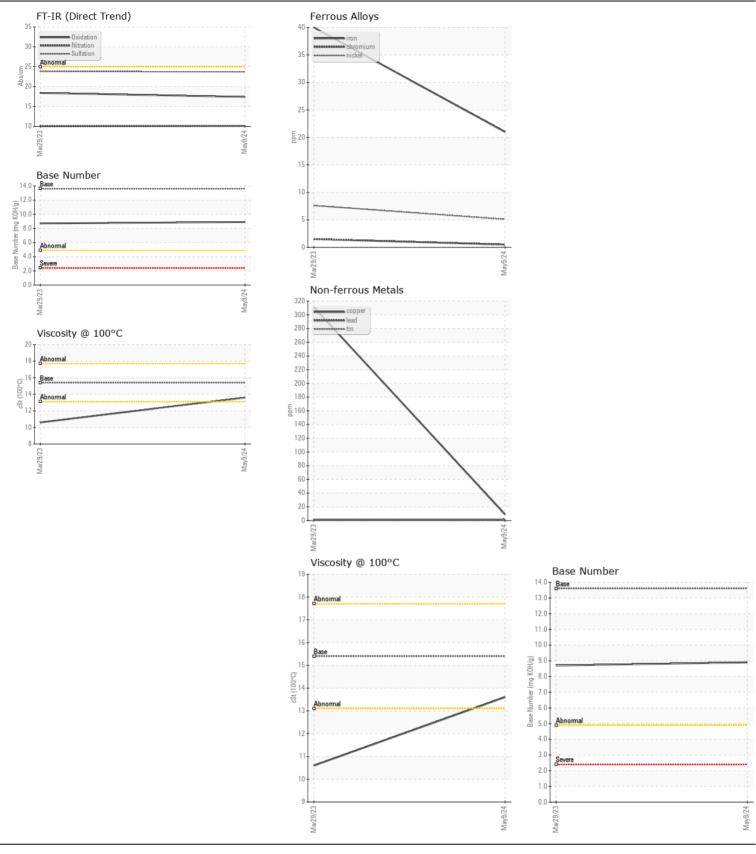
	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0177187	JR0145637	
	Sample Date		Client Info		09 May 2024	29 Mar 2023	
	Machine Age	hrs	Client Info		228	523	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	21	40	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1	2	
	Nickel	ppm	ASTM D5185m	>5	5	8	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	6	8	
	Lead	ppm	ASTM D5185m	>26	2	<1	
	Copper	ppm	ASTM D5185m	>26	9	A 311	
	Tin	ppm	ASTM D5185m	>4	1	1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	12	19	
	Potassium	ppm	ASTM D5185m	>20	4	19	
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	0.3	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.9	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	10.1	10.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	23.8	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	6	
	Boron	ppm	ASTM D5185m		158	162	
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		0	0	
	Molybdenum	ppm	ASTM D5185m		277	295	
	Manganese	ppm	ASTM D5185m		1	5	
	Magnesium	ppm	ASTM D5185m		880	902	
	Calcium	ppm	ASTM D5185m		1482	1561	
	Phosphorus	ppm	ASTM D5185m		966	977	
	Zinc	ppm	ASTM D5185m		1157	1150	
	Sulfur	ppm	ASTM D5185m		3354	2992	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	18.4	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	8.7	
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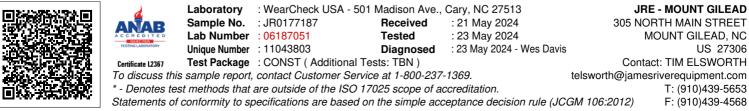
Visc @ 100°C cSt

ASTM D445 15.4

10.6

13.6





Contact/Location: TIM ELSWORTH - JAMMOUJR