

[W8549] Machine Id JOHN DEERE Generator (S/N 048957) Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 QTS)

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: W8549)

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All component wear rates are normal.

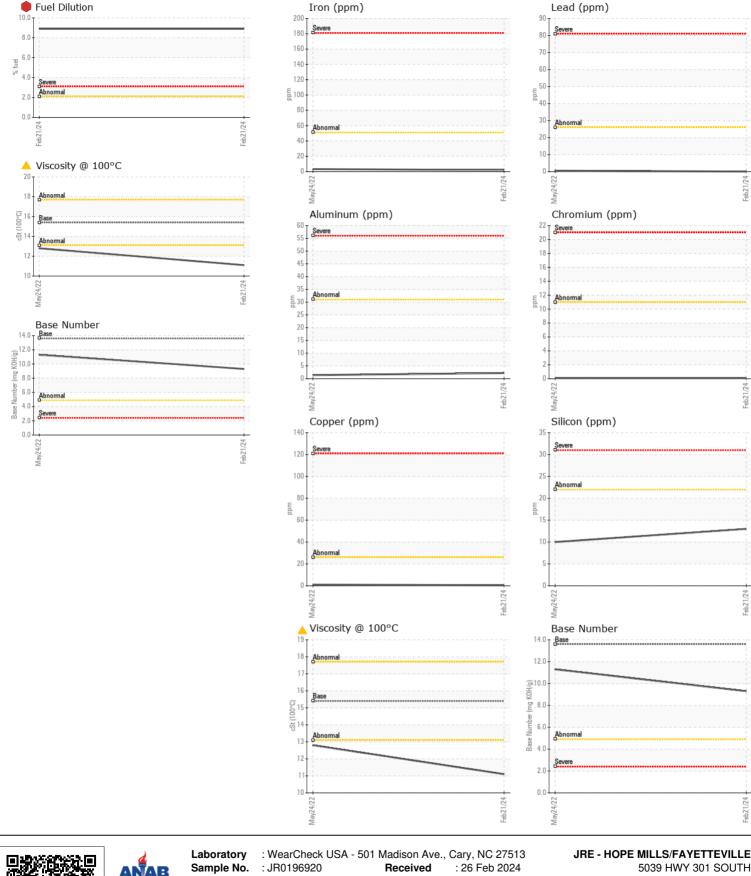
CONTAMINATION

There is a high amount of fuel present in the oil.

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196920	JR0097871	
Sample Date		Client Info		21 Feb 2024	24 May 2022	
Machine Age	hrs	Client Info		302	293	
Oil Age	hrs	Client Info		9	293	
Filter Age	hrs	Client Info		9	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status		0.0.0.1		SEVERE	NORMAL	
Iron	ppm	ASTM D5185m	>51	2	3	
Chromium	ppm	ASTM D5185m	>11	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>31	2	1	
Lead	ppm	ASTM D5185m	>26	0	<1	
Copper	ppm	ASTM D5185m	>26	<1	1	
Tin	ppm	ASTM D5185m	>4	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	304141	visual	NONL		NONL	
Silicon	ppm	ASTM D5185m	>22	13	10	
Potassium	ppm	ASTM D5185m	>20	2	0	
Fuel	%	ASTM D3524	>2.1	8.9	<1.0	
Water		WC Method	>0.21	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>3	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	21.4	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	LIGHT	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water		*Visual	>0.21	NEG	NEG	
		· iouui	× 0.2 1		NEG	
Sodium	ppm	ASTM D5185m	>31	0	3	
Boron	ppm	ASTM D5185m		222	98	
Barium	ppm	ASTM D5185m		9	0	
Molybdenum	ppm	ASTM D5185m		183	77	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		593	464	
Calcium	ppm	ASTM D5185m		1218	2013	
Phosphorus	ppm	ASTM D5185m		783	997	
Zinc	ppm	ASTM D5185m		879	1156	
Sulfur	ppm	ASTM D5185m		2845	3279	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	19.3	
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.3	11.3	
Visc @ 100°C	cSt	ASTM D2030 ASTM D445	15.4	→ 11.1	12.8	
VISC @ 100 C	601	AG HVI D443	10.4		12.0	



Lab Number : 06099977 : 28 Feb 2024 HOPE MILLS, NC Tested Unique Number : 10898207 : 28 Feb 2024 - Jonathan Hester US 28348 Diagnosed Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: FAYETTEVILLE SHOP Certificate L2367 stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)