

OIL ANALYSIS REPORT

[125538] **JOHN DEERE 350G 1FF350GXCKF813932** Component Diesel Engine JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

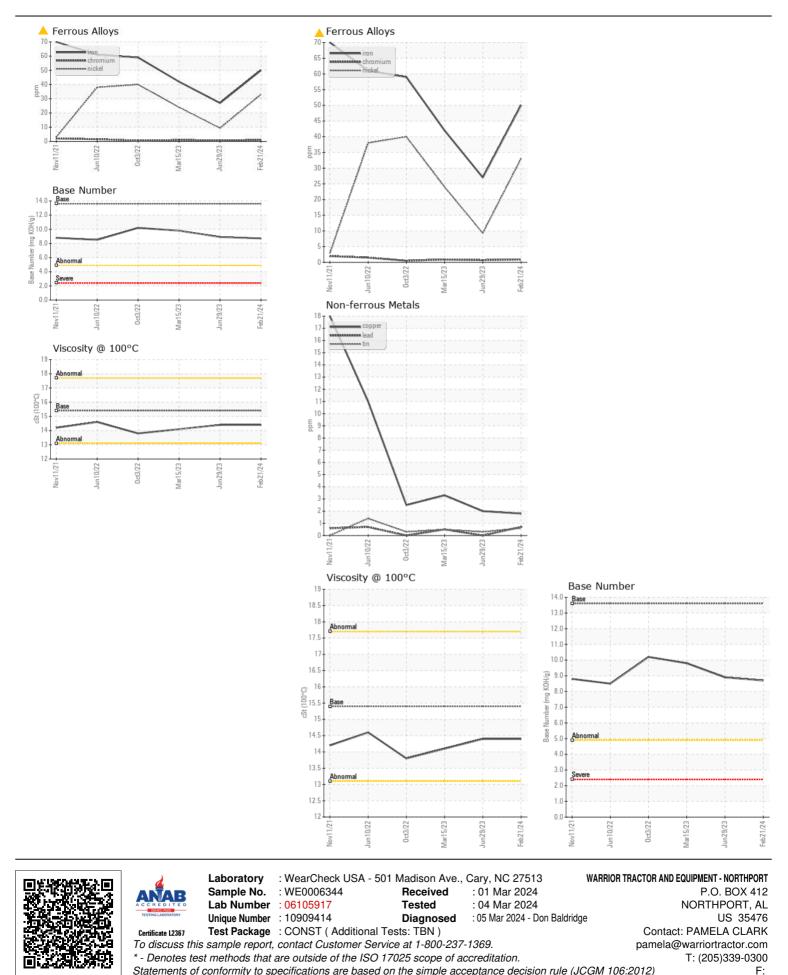
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.	Sample Number	UCIVI	Client Info	LITTICAUT	WE0006344	WE0004357	WE0003769
	Sample Date		Client Info		21 Feb 2024	29 Jun 2023	15 Mar 2023
	Machine Age	hrs	Client Info		4418	3950	3452
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Oliont into		ABNORMAL	ABNORMAL	ABNORMAL
WEAR Valve wear is indicated. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	50	27	42
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	A 33	9	4
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	3	4
	Lead	ppm	ASTM D5185m	>26	<1	0	<1
	Copper	ppm	ASTM D5185m	>26	2	2	3
	Tin	ppm	ASTM D5185m	>4	<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	>22	10	9	11
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	4	2
	Fuel		WC Method	>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	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.5	9.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.8	23.0
	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	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m	>31	2	6	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		208	232	185
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		263	270	262
	Manganese	ppm	ASTM D5185m		2	<1	1
	Magnesium	ppm	ASTM D5185m		857	934	834
	Calcium	ppm	ASTM D5185m		1394	1585	1674
	Phosphorus	ppm	ASTM D5185m		872	931	909
	Zinc	ppm	ASTM D5185m		1122	1175	1108
	Sulfur	ppm	ASTM D5185m		2968	3825	3208
	Oxidation	Abs/.1mm	*ASTM D7414		16.4	17.7	16.9
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.7	8.9	9.8
	Vian (0.40000	- 01	AOTM D445	4 - 4		- 4 4	

Visc @ 100°C cSt ASTM D445 15.4

14.4

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