

WEAR CONTAMINATION FLUID CONDITION

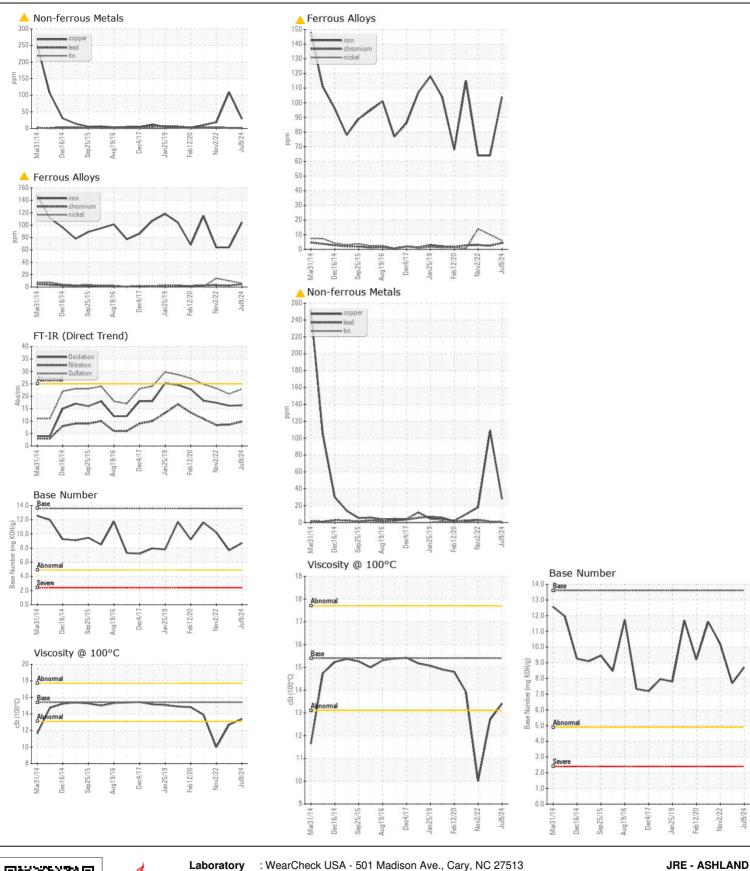
ABNORMAL NORMAL NORMAL



JOHN DEERE 350G 1FF350GXCDE809671

Component
Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)							
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. Resample at the next service interval to monitor.	Sample Number	00	Client Info		JR0224507	,	JR0147887
	Sample Date		Client Info		09 Jul 2024	25 Apr 2023	02 Nov 2022
	Machine Age	hrs	Client Info		9452	8987	8461
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	104	<u></u> 64	64
The copper level has decreased, but is still abnormal. Cylinder, crank, or cam shaft wear is indicated.	Chromium	ppm	ASTM D5185m	>11	4	2	3
	Nickel	ppm	ASTM D5185m	>5	6	1 0	<u> </u>
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	2	4
	Lead	ppm	ASTM D5185m		<1	1	3
	Copper	ppm	ASTM D5185m		<u> </u>	<u> 109</u>	18
	Tin	ppm	ASTM D5185m	>4	0	1	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	19	13	16
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	4	6
	Fuel		WC Method		<1.0	<1.0	0.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.9	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.6	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		22.9	20.9	23.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE NONE
	Debris Sand/Dirt	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
	Appearance	scalar scalar	*Visual *Visual	NONE	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
ELLUD CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6	4	18
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		133	175	214
	Barium	ppm	ASTM D5185m		<1	0	0
	Monganaga	ppm	ASTM D5185m ASTM D5185m		251	260	244
	Manganese Magnesium	ppm	ASTM D5185m		1 790	2 778	2 747
	Calcium	ppm	ASTM D5185m		1542	1439	1410
	Phosphorus	ppm	ASTM D5185m		905	878	803
	Zinc	ppm	ASTM D5185m		1030	1098	1036
	Sulfur	ppm	ASTM D5185m		3279	2933	3127
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.2	17.4
	Base Number (BN)				8.7	7.7	10.2
	Visc @ 100°C	cSt	ASTM D445		13.4	12.7	10.0





Laboratory Sample No.

: JR0224507 Lab Number : 06234155

Received **Tested** Unique Number: 11122989 Diagnosed

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

: 11 Jul 2024

: 12 Jul 2024

: 14 Jul 2024 - Don Baldridge

Test Package : CONST (Additional Tests: TBN)

Certificate L2367 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.

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