

JOHN DEERE 350G 1FF350GXCCE808762

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

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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		Client Info		JR0179261	JR0181006	JR0164538
	Sample Date	bro	Client Info		24 Apr 2024	14 Nov 2023 7073	16 May 2023 6797
	Machine Age	hrs	Client Info Client Info		7442 500		6797
	Oil Age Filter Age	hrs hrs	Client Info		500	0	672
	Oil Changed	1115	Client Info		Changed	N/A	072 N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	A 77	9 7	1 97
	Chromium	ppm	ASTM D5185m	>11	2	2	4
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m	>5	1	2	3
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	5	4
	Lead	ppm	ASTM D5185m		<1	<1	2
	Copper	ppm	ASTM D5185m	>26	1	1	2
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	9	9	13
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	4	5
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.5	1.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.7	12.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22.6	28.0
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<u>\</u> 31	2	<1	5
I LOID CONDITION	Boron	ppm	ASTM D5185m	201	190	190	57
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.	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		256	277	277
	Manganese	ppm	ASTM D5185m		2	1	3
	Magnesium	ppm	ASTM D5185m		832	822	919
	Calcium	ppm	ASTM D5185m		1458	1499	1617
	Phosphorus	ppm	ASTM D5185m		922	881	947
	Zinc	ppm	ASTM D5185m		1118	1094	1187
	Sulfur	ppm	ASTM D5185m		3340	3343	3720
	Oxidation		*ASTM D7414	>25	17.9	17.4	22.8

Base Number (BN) mg KOH/g ASTM D2896 13.6

ASTM D445 15.4

Visc @ 100°C cSt

8.6

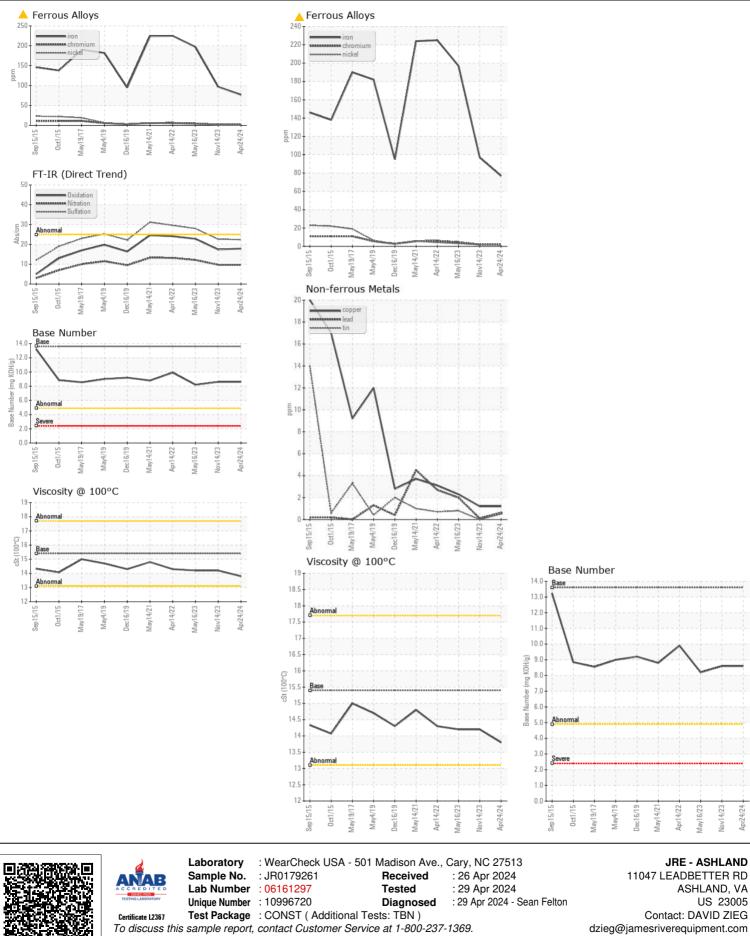
14.2

8.6

13.8

8.2

14.2



 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 dzieg@jau

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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