

[05W47740] Machine Id JOHN DEERE 350G 1FF350GXVJF813095 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 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. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0225286	JR0169031	JR0137240
	Sample Date		Client Info		08 Jul 2024	17 Apr 2023	25 Jul 2022
	Machine Age	hrs	Client Info		5018	4447	3935
	Oil Age	hrs	Client Info		571	512	472
	Filter Age	hrs	Client Info		571	512	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	4 75	46	49
Cylinder, crank, or cam shaft wear is indicated.	Chromium	ppm	ASTM D5185m	>11	<1	1	<1
	Nickel	ppm	ASTM D5185m	>5	2	2	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	<1	4
	Lead	ppm	ASTM D5185m	>26	0	0	<1
	Copper	ppm	ASTM D5185m	>26	22	2	3
	Tin	ppm		>4	0	<1	<1
	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	8	8	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	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	0.6	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.1	9.4
	Sulfation	Abs/.1mm	*ASTM D7415		22.1	20.0	23.3
	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	>31	4	2	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		154	218	206
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		255	228	261
	Manganese	ppm	ASTM D5185m		<1	2	<1
	Magnesium	ppm	ASTM D5185m		862	775	801
	Calcium	ppm	ASTM D5185m		1604	1439	1508
	Phosphorus	ppm	ASTM D5185m		936	810	897
	Zinc	ppm	ASTM D5185m		1137	1042	1090
	Sulfur	ppm	ASTM D5185m	0.5	3480	2789	3364
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	14.7	16.9

7.9

13.3

10.5

13.3

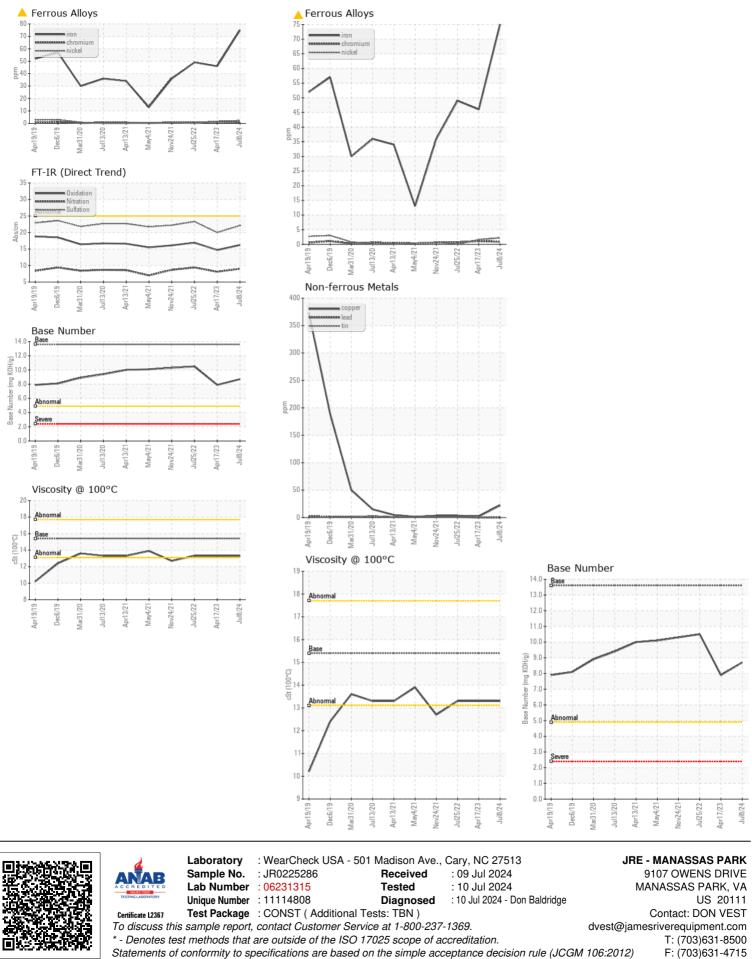
8.7

13.3

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

ASTM D445 15.4

Visc @ 100°C cSt



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

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