

JOHN DEERE 300G 1FF300GXAGF730338

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0209989	JR0104522	JR0021205
	Sample Date		Client Info		09 May 2024	03 Nov 2021	12 Nov 2019
	Machine Age	hrs	Client Info		3321	3017	2094
	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	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	4 74	▲ 63	37
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	1	<1
	Nickel	ppm	ASTM D5185m		2	2	2
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	6	7
	Lead	ppm	ASTM D5185m	>26	0	2	2
	Copper	ppm	ASTM D5185m	>26	6	6	6
	Tin	ppm	ASTM D5185m	>4	1	0	2
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>~22</u>	9	9	9
CONTAMINATION	Potassium	ppm	ASTM D5185m		3	4	0
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.7	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	11.1	11.2
	Sulfation	Abs/.1mm	*ASTM D7415		24.8	27.9	28.2
	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		5	8	6
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		120	20	25
	Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		253	252	234
	Manganese	ppm	ASTM D5185m		1	2	2
	Magnesium	ppm	ASTM D5185m		796	908	832
	Calcium	ppm	ASTM D5185m		1436	1701	1513
	Phosphorus	ppm	ASTM D5185m		883	811	858
	Zinc	ppm	ASTM D5185m		1073	1054	1016
	Sulfur	ppm	ASTM D5185m		3064	3710	2306
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	22.9	23.7
	Deee Number (DNI)		AOTH DOCCO	10.0	7 4	0.4	0 5

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

ASTM D445 15.4

Visc @ 100°C cSt

6.1

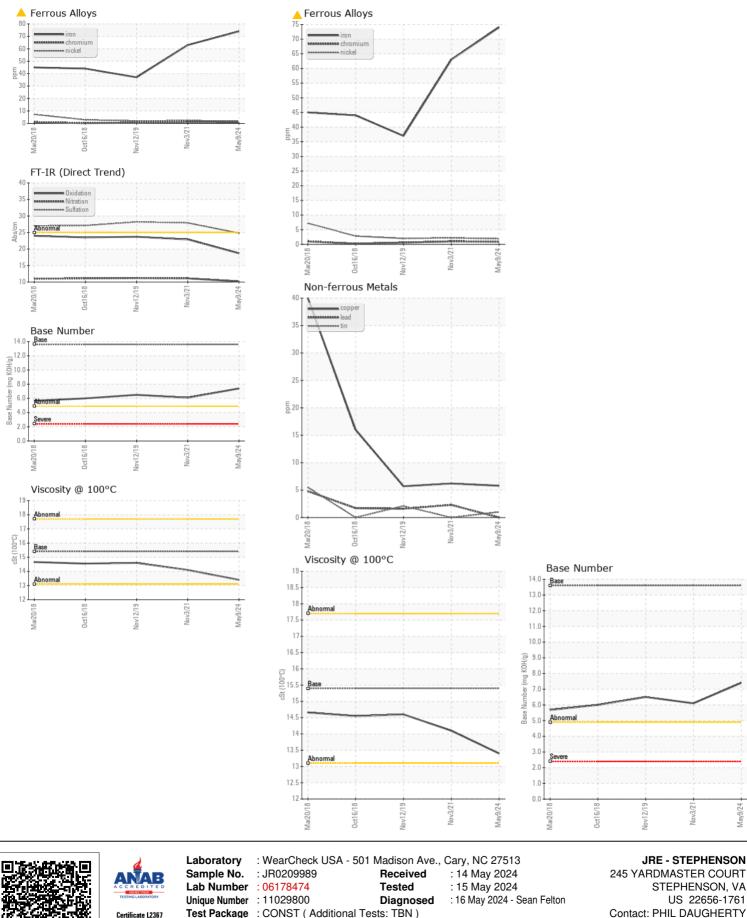
14.1

6.5

14.6

7.4

13.4



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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Contact/Location: PHIL DAUGHERTY - JAMWIN Page 2 of 2