



Area Store 2 - Beaver [60293] Machine Id JOHN DEERE 350G 1FF350GXPDE809634 Component

Component Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIII/ADII	LECP173986	,	LECP151323
Oil and filter change at the time of sampling has been noted. Resample	Sample Number		Client Info		03 Apr 2017	23 Jun 2016	10 Dec 2015
at the next service interval to monitor.	Machine Age	hrs	Client Info		3738	3227	2659
	Oil Age	hrs	Client Info		511	568	558
	Filter Age	hrs	Client Info		511	568	558
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	88	88	🔺 139
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	2	2	4
	Nickel	ppm	ASTM D5185m	>5	2	1	3
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>31	8	5	6
	Lead	ppm	ASTM D5185m	>26	7	5	2
	Copper	ppm	ASTM D5185m	>26	3	4	8
	Tin	ppm	ASTM D5185m	>4	2	0	0
	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	6	5	5
CONTAMINATION	Potassium	ppm	ASTM D5185m		6	8	6
There is no indication of any contamination in the component.	Fuel	pp	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.3	0.8
	Nitration	Abs/cm	*ASTM D7624		10.	8.	10.
	Sulfation	Abs/.1mm	*ASTM D7415		24.	20.	26.
	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		ASTM D5185m	. 01	c	7	12
FLUID CONDITION	Boron	ppm	ASTM D5185m	>31	6 68	7	97
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm ppm	ASTM D5185m		100	87	91
	Manganese		ASTM D5185m			1	2
	Magnesium	ppm ppm	ASTM D5185m		<1 518	356	390
	Calcium	ppm	ASTM D5185m		1612	1857	1644
	Phosphorus	ppm	ASTM D5185m		1012	998	1000
	Zinc	ppm	ASTM D5185m		1230	1228	1207
	Sulfur	ppm	ASTM D5185m		2859	3125	2975
	Oxidation	Abs/.1mm	*ASTM D3103111		2039	15.	20.
	D Nu I I			10.0	20.	10.	20.

ASTM D445 15.4

7.49

15.05

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

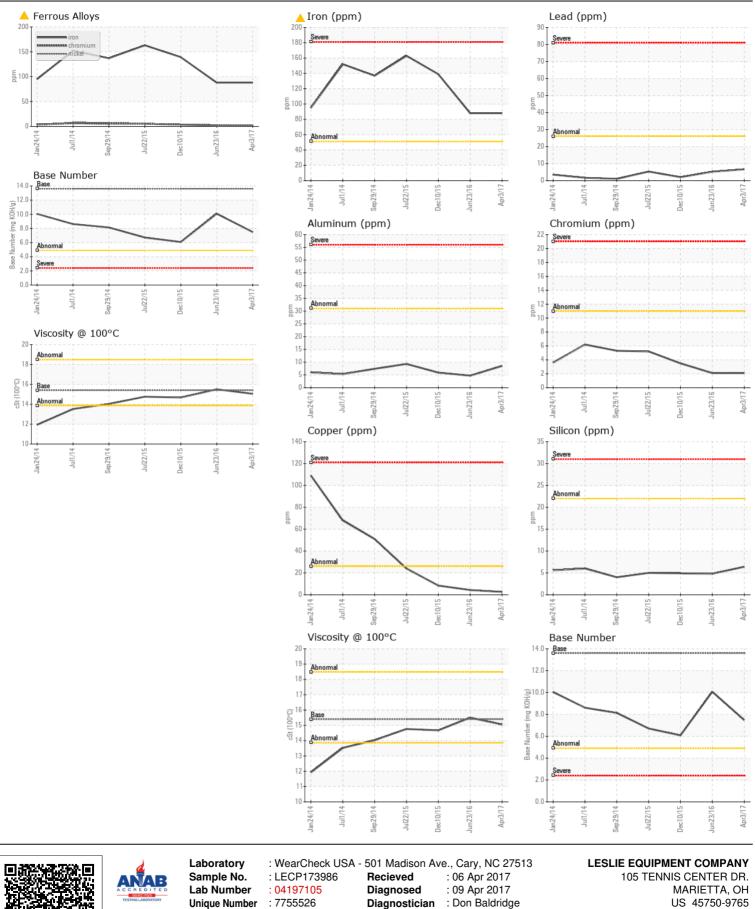
Visc @ 100°C cSt

6.08

14.67

10.07

15.5



- Test Package : MOB 2 (Additional Tests: PQ) 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.

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

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