

Store 9 - Marietta [149024] JOHN DEERE 310G T0310SG902056

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 QTS)

	9 (13)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0049351	LEC0030186	LECP115982
	Sample Date		Client Info		17 May 2024	17 Jun 2022	27 Mar 2012
	Machine Age	hrs	Client Info		2712	2701	2438
	Oil Age	hrs	Client Info		11	500	86
	Filter Age	hrs	Client Info		0	500	86
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	MARGINAL
WEAR	Iron	ppm	ASTM D5185m	>51	11	6	21
WEAR	Chromium	ppm	ASTM D5185m		<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	<1	0
	Aluminum	ppm	ASTM D5185m		5	<1	3
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	5
	Tin	ppm	ASTM D5185m		<1	0	<1
	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		ASTM D5185m	. 120	9	8	A 20
	Potassium	ppm ppm	ASTM D5185m		3	2	▲ 39 1
There is no indication of any contamination in the oil.	Fuel	ррп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0
	Nitration	Abs/cm	*ASTM D7624		6.2	5.4	6.
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	22.5	16.
	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	3	<1	4
	Boron	ppm	ASTM D5185m	201	273	80	16
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	ASTM D5185m		230	47	18
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		749	480	738
	Calcium	ppm	ASTM D5185m		1345	1614	1576
	Phosphorus	ppm	ASTM D5185m		811	749	1110
	Zinc	ppm	ASTM D5185m		993	935	1228
	Sulfur	ppm	ASTM D5185m		2957	2816	3010
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	20.2	11.
	Base Number (BN)		ASTM D2896		9.8	11.3	9.15
	Vier C 10000	- 01		45.4		10.0	10.00

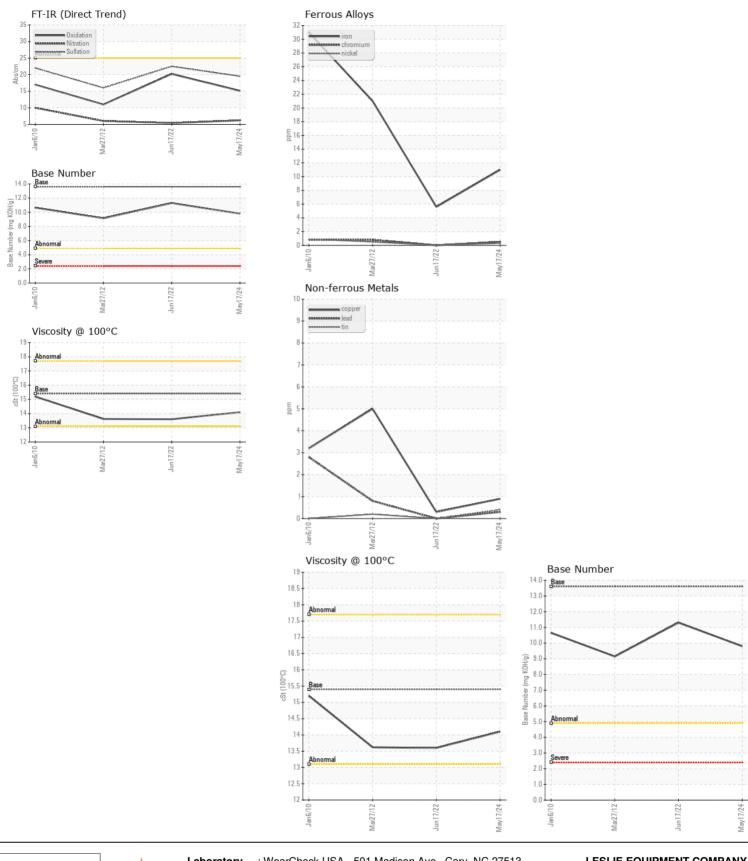
Visc @ 100°C cSt

13.6

13.62

14.1

ASTM D445 15.4



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 LESLIE EQUIPMENT COMPANY Laboratory Sample No. : LEC0049351 Received 105 TENNIS CENTER DR. : 23 May 2024 : 24 May 2024 Lab Number : 06188980 Tested MARIETTA, OH Unique Number : 11045732 Diagnosed : 24 May 2024 - Wes Davis US 45750-9765 Test Package : CONST (Additional Tests: TBN) Contact: LEANNE KENDALL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. KendalLeanne@lec1.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

Submitted By: STORE5 - CROSS LANES - NEIL BALL Page 2 of 2