

Store 4 - Fairmont [RO# 151459] JOHN DEERE 310SL 1T0310SLTNF425249

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0049049	LEC0040800	LEC0037686
Resample at the next service interval to monitor.	Sample Date		Client Info		30 May 2024	08 Jun 2023	15 Mar 2023
	Machine Age	hrs	Client Info		1297	714	505
	Oil Age	hrs	Client Info		583	209	505
	Filter Age	hrs	Client Info		583	209	505
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>51	13	7	25
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1	0	<1
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	2	8
	Lead	ppm		>26	1	<1	5
	Copper	ppm	ASTM D5185m		4	3	27
	Tin	ppm	ASTM D5185m		<1	<1	2
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Cilicon			. 100	。	6	10
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	6	12
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		3	0	3
			WC Method	>2.1	<1.0	<1.0	0.4
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.6	8.5
	Sulfation	Abs/.1mm	*ASTM D7415		21.3	20.5	21.5
	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 Emulsified Water	scalar	*Visual	NORML >0.21	NORML NEG	NORML NEG	NORML
		scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	2	6
The DN second feedback should be a feedback be all a feedback being the feedback of the feedba	Boron	ppm	ASTM D5185m		288	269	247
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		<1	0	0
	Molybdenum	ppm	ASTM D5185m		263	239	237
	Manganese	ppm	ASTM D5185m		<1	<1	4
	Magnesium	ppm	ASTM D5185m		811	785	720
	Calcium	ppm	ASTM D5185m		1488	1492	1366
	Phosphorus	ppm	ASTM D5185m		985	884	801
	Zinc	ppm	ASTM D5185m		1169	1090	937
	Sulfur	ppm	ASTM D5185m		3549	3670	3162
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	15.2	16.4
	Base Number (BN)	mg KOH/g	ASTM D2896		8.4	9.6	8.7
	\/	- 01		45.4	10.0	10.0	0.0

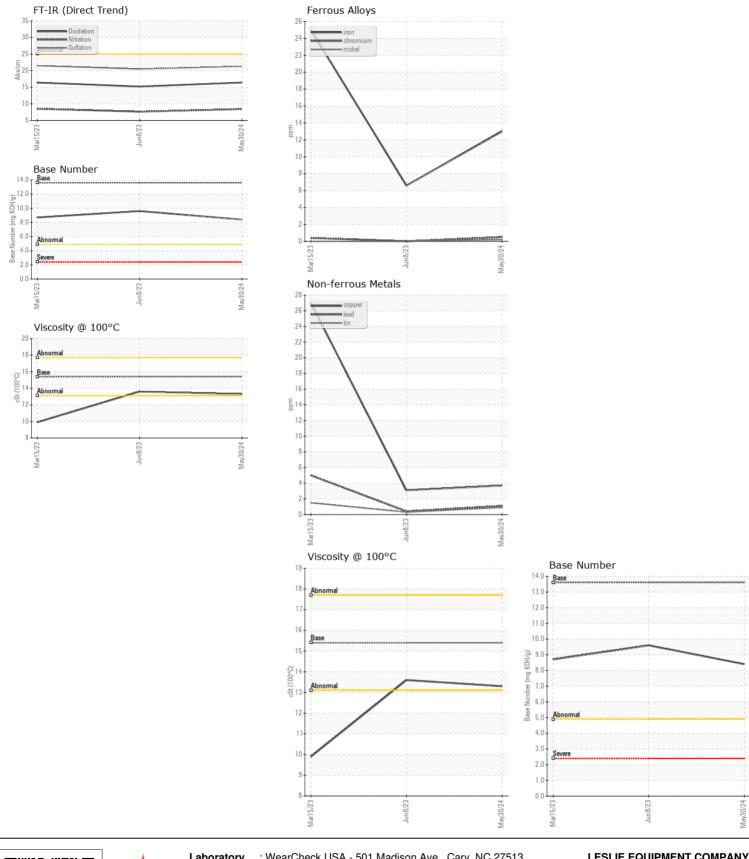
Visc @ 100°C cSt

ASTM D445 15.4

13.6

9.9

13.3



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : LEC0049049 Received : 03 Jun 2024 105 TENNIS CENTER DR. Lab Number : 06197490 Tested : 04 Jun 2024 MARIETTA, OH Unique Number : 11059613 Diagnosed : 04 Jun 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: F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: LESMAROH [WUSCAR] 06197490 (Generated: 06/05/2024 04:20:36) Rev: 1

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Submitted By: APRIL TREADWAY Page 2 of 2