



Store 5 - Cross Lanes [149370] JOHN DEERE 50G 1FF050GXHLH292763 Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0049432	LEC0029779	LEC0017879
Resample at the next service interval to monitor.	Sample Date		Client Info		02 Apr 2024	16 Jun 2022	09 Apr 2021
	Machine Age	hrs	Client Info		1534	1004	508
	Oil Age	hrs	Client Info		530	496	508
	Filter Age	hrs	Client Info		530	496	508
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron		ASTM D5185m	. 51	19	20	20
WEAN	Chromium	ppm	ASTM D5185m		<1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		<1 <1	<1	<1
	Titanium	ppm	ASTM D5185m	>0	<1	<1	<1
	Silver	ppm	ASTM D5185m	. 2	0	0	0
	Aluminum	ppm	ASTM D5185m		6	5	3
		ppm			1	2	3
	Lead	ppm	ASTM D5185m ASTM D5185m		2	2	9
	Copper Tin	ppm	ASTM D5185m			1	
	Vanadium	ppm	ASTM D5185m	>4	<1 <1	0	<1 0
	White Metal	ppm	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		scalar	visuai	NONE		NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	14	16	23
	Potassium	ppm	ASTM D5185m	>20	3	13	1 31
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	1.6
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	11.8	10.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	24.7	21.7
	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	2	3	7
	Boron	ppm	ASTM D5185m		166	231	114
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	3
	Molybdenum	ppm	ASTM D5185m		244	251	95
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		849	779	18
	Calcium	ppm	ASTM D5185m		1590	1559	1338
	Phosphorus	ppm	ASTM D5185m		932	827	363
	Zinc	ppm	ASTM D5185m		1158	1057	446
	Sulfur	ppm	ASTM D5185m		3523	2857	1038
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.9	23.1	18.9
	Base Number (BN)				8.5	9.0	6.3
		- 01				110	

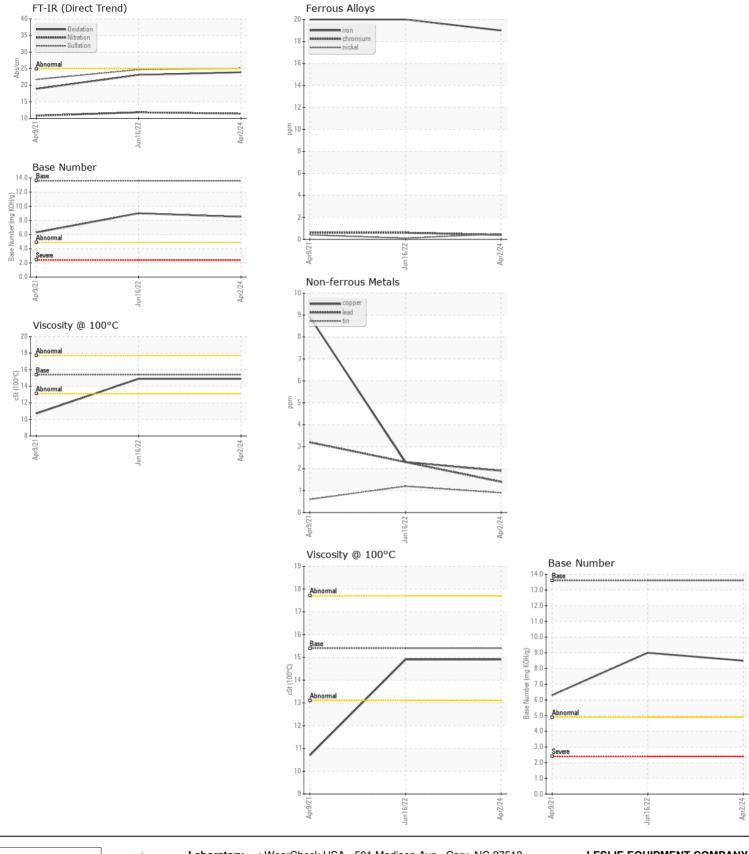
Visc @ 100°C cSt

14.9

0.7

14.9

ASTM D445 15.4



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 105 TENNIS CENTER DR. : LEC0049432 : 11 Apr 2024 Lab Number : 06145565 Tested MARIETTA, OH : 12 Apr 2024 Unique Number : 10970373 Diagnosed : 12 Apr 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

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