

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



Store 3 - Norton JOHN DEERE 750K 1T0750KXLFF288639 Diesel Engine

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0045188	LECP178191	LECP172814
	Sample Date		Client Info		24 Apr 2024	19 Apr 2018	22 Sep 2017
	Machine Age	hrs	Client Info		3422	1264	885
	Oil Age	hrs	Client Info		475	379	475
	Filter Age	hrs	Client Info		475	0	475
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		0.0.0.0		ABNORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	🔺 55	20	26
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	>5	3	2	5
	Titanium	ppm	ASTM D5185m		1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>31	4	3	6
	Lead	ppm	ASTM D5185m	>26	<1	0	0
	Copper	ppm	ASTM D5185m	>26	3	13	<u> </u>
	Tin	ppm	ASTM D5185m		<1	<1	<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	ppm	ASTM D5185m	>!20	10	3	7
	Potassium	ppm	ASTM D5185m	>20	3	1	13
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.	9.
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	19.	21.
	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		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>31	2	4	4
	Boron	ppm	ASTM D5185m		19	365	171
	Barium	ppm	ASTM D5185m		2	<1	0
	Molybdenum	ppm	ASTM D5185m		73	92	203
	Manganese	ppm	ASTM D5185m		1	<1	1
	Magnesium	ppm	ASTM D5185m		405	390	726
	Calcium	ppm	ASTM D5185m		1700	1396	1329
	Phosphorus	ppm	ASTM D5185m		1013	896	870
	Zinc	ppm	ASTM D5185m		1225	1040	1005
	Sulfur	ppm	ASTM D5185m		3508	2552	2492
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	15.	17.
	Base Number (BN)				8.0	9.00	7.89
		0		45.4		10.47	10.7

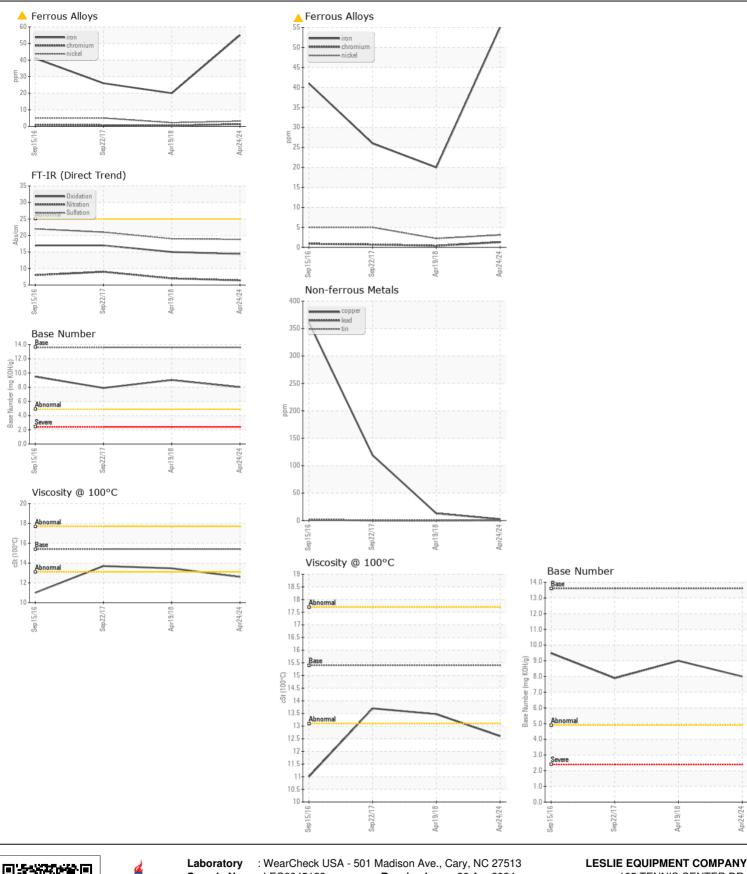
Visc @ 100°C cSt

13.47

13.7

12.6

ASTM D445 15.4



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 LESLIE EQUIPMENT COMPANY Laboratory Sample No. Received 105 TENNIS CENTER DR. : LEC0045188 : 26 Apr 2024 Lab Number : 06161300 Tested MARIETTA, OH : 29 Apr 2024 Unique Number : 10996723 Diagnosed : 29 Apr 2024 - Don Baldridge US 45750-9765 Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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: STORE 3 - NORTON - BRIAN YOUTZY Page 2 of 2