



Store 5 - Cross Lanes **JOHN DEERE 700K 1T0700KXEKF356403** Component Diesel Engine

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

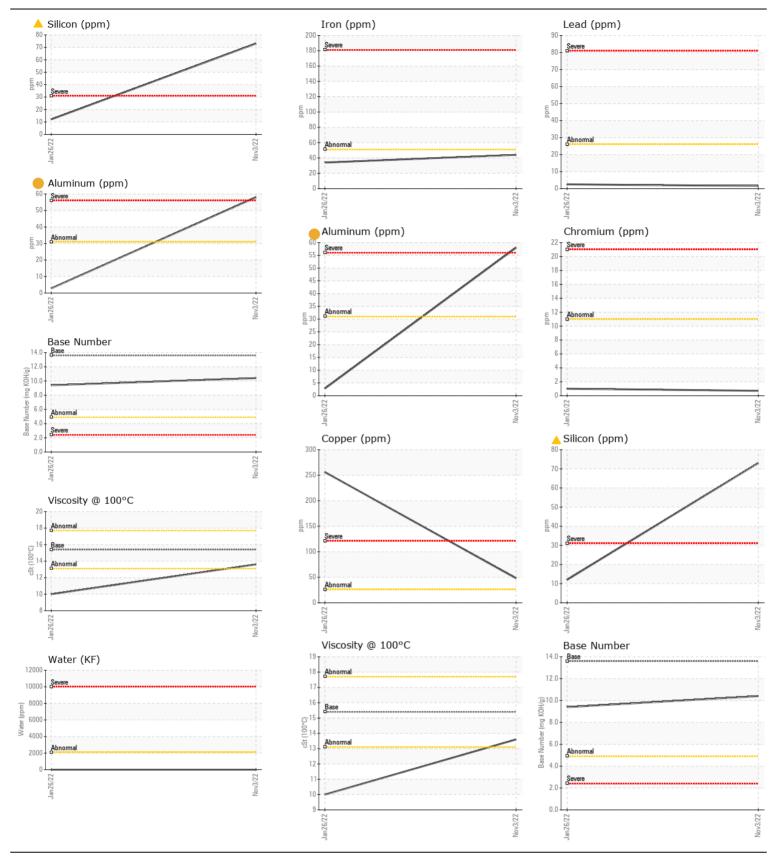
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0024153	LEC0026475	
	- Sample Dale		Client Info		03 Nov 2022	26 Jan 2022	
	Machine Age	hrs	Client Info		514	309	
	Oil Age	hrs	Client Info		205	309	
	Filter Age	hrs	Client Info		205	309	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
						0.4	
WEAR	Iron	ppm	ASTM D5185m		44	34	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1	1	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m		2	<1	
	Silver	ppm	ASTM D5185m	<u><u> </u></u>	0	0	
	Aluminum	ppm	ASTM D5185m		5 8	3	
	Lead	ppm	ASTM D5185m		2	2	
	Copper	ppm	ASTM D5185m		48	▲ 256	
	Tin	ppm	ASTM D5185m	>4	11	2	
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	A 73	12	
Elemental levels of silicon (Si) and aluminum (AI) indicate alumina- silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	8	<1	
	nina- Fuel		WC Method	>2.1	<1.0	0.3	
	Water	%	ASTM D6304	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23	24.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	8	
	Boron	ppm	ASTM D5185m		269	211	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	ng in the Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		237	260	
	Manganese	ppm	ASTM D5185m		2	4	
	Magnesium	ppm	ASTM D5185m		751	827	
	Calcium	ppm	ASTM D5185m		1401	1431	
	Phosphorus	ppm	ASTM D5185m		823	796	
	Zinc	ppm	ASTM D5185m		955	1013	
	Sulfur	ppm	ASTM D5185m		3234	2541	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	20.4	
	Base Number (BN)		ASTM D2896		10.4	9.4	
		- C/	ACTN DA45	1 - 4	40.0	10.0	

Visc @ 100°C cSt

10.0

13.6

ASTM D445 15.4



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 105 TENNIS CENTER DR. : LEC0024153 : 07 Nov 2022 Lab Number : 05686275 Tested MARIETTA, OH :08 Nov 2022 Unique Number : 10205847 : 09 Nov 2022 - Don Baldridge US 45750-9765 Diagnosed Test Package : MOBCE (Additional Tests: KF, 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