



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



Store 2 - Beaver [RO#145892]

JOHN DEERE 1050K 1T01050KLKF353749

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (12 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
THE CHARLEST THE THE THE THE THE THE THE THE THE TH	Sample Number		Client Info		LEC0045409		
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Break in oil)	Sample Date		Client Info		12 Jan 2024		
	Machine Age	hrs	Client Info		156		
	Oil Age	hrs	Client Info		156		
	Filter Age	hrs	Client Info		156		
	Oil Changed	1113	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Ciletit IIIIO		ABNORMAL		
	Sample Status				ADNUNIMAL		
WEAR The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>51	30		
	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	5		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	1		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		9		
	Copper	ppm	ASTM D5185m		△ 308		
	Tin	ppm		>4	6		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	13		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	8		
	Fuel		WC Method	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
ELUID CONDITION	0 "		AOTM DE LOS		•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	8		
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.	Boron	ppm	ASTM D5185m		236		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		210		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		705		
	Calcium	ppm	ASTM D5185m		1314		
	Phosphorus	ppm	ASTM D5185m		882		
	Zinc	ppm	ASTM D5185m		1030		
	Sulfur	ppm	ASTM D5185m	05	2925		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8		
	Base Number (BN)				8.4		
	Visc @ 100°C	cSt	ASTM D445		9.6		







Certificate L2367

Report Id: LESMAROH [WUSCAR] 06060847 (Generated: 01/17/2024 11:43:24) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: LEC0045409 : 06060847 : 10832229

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed : 17 Jan 2024

Diagnostician : Jonathan Hester

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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