

WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ABNORMAL



JOHN DEERE 650K 1T0650KKEPF434655

Diesel Engine

	IS 50 II 15W	.: У					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WE0006508		
	Sample Date		Client Info		15 Jan 2024		
	Machine Age	hrs	Client Info		499		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VEAR	Iron	ppm	ASTM D5185m	>51	35		
	Chromium	ppm	ASTM D5185m		1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		- <1		
	Titanium	ppm	ASTM D5185m	/5	0		
	Silver		ASTM D5185m	~3	0		
	Aluminum	ppm	ASTM D5185m		8		
	Lead	ppm	ASTM D5185m		9		
	Copper	ppm	ASTM D5185m		9 34		
	Tin	ppm		>4	2		
	Vanadium	ppm	ASTM D5185m	77	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		11		
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel	%	ASTM D3524		<u>^</u> 2.1		
	Water		WC Method	>0.21	NEG		
	Glycol	21	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.8		
	Sulfation	Abs/.1mm	*ASTM D7415		24.7		
	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		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5		
	Boron	ppm	ASTM D5185m		155		
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		6		
	Molybdenum	ppm	ASTM D5185m		220		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		775		
	Calcium	ppm	ASTM D5185m		1734		
	Phosphorus	ppm	ASTM D5185m		998		
	Zinc	ppm	ASTM D5185m		1261		
	Sulfur	ppm	ASTM D5185m		3297		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5		
	Base Number (BN)	mg KOH/q	ASTM D2896	13.6	7.6		
		0 3					







Certificate L2367

Laboratory

Sample No. Lab Number

: WE0006508 : 06065416 Unique Number : 10836798

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Jan 2024

Diagnosed : 23 Jan 2024 Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)