WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

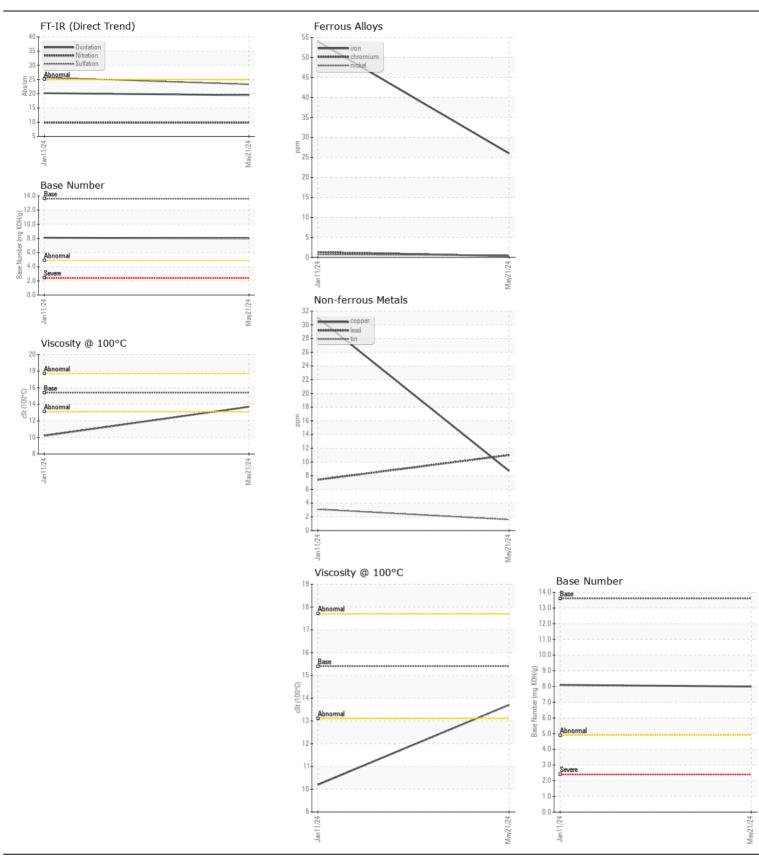


Machine Id **JOHN DEERE 650K 1T0650KKPNF414116**

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212765	JR0195416	
	Sample Date	le ore	Client Info		21 May 2024	11 Jan 2024	
	Machine Age	hrs	Client Info		990	427	
	Oil Age	hrs	Client Info		563	427	
	Filter Age	hrs	Client Info		563	427	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
<u></u>	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	26	54	
Motel levels are typical for a new component by a time in	Chromium	ppm	ASTM D5185m	>11	<1	1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>5	<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	7	11	
	Lead	ppm	ASTM D5185m	>26	11	7	
	Copper	ppm	ASTM D5185m		9	31	
	Tin	ppm	ASTM D5185m	>4	2	3	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 22	7	11	
CONTAININATION	Potassium	ppm	ASTM D5185m		7	3	
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	0.5	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	70.21	NEG	NEG	
	Soot %	%	*ASTM D7844	\3	0.5	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.8	
	Sulfation	Abs/.1mm	*ASTM D7415		23.3	25.7	
	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	
ELUID CONDITION	015		AOTA DE LOS	04			
FLUID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m	>31	122	7	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m		123 0	164 7	
	Molybdenum	ppm	ASTM D5185m		230	274	
	Manganese	ppm	ASTM D5185m		2	7	
	Magnesium		ASTM D5185m		941	819	
	Calcium	ppm	ASTM D5185m		1457	1408	
	Phosphorus	ppm	ASTM D5185m		986	932	
	Zinc	ppm	ASTM D5185m		1249	1111	
	Sulfur	ppm	ASTM D5185m		3545	2845	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	20.2	
	Base Number (BN)		ASTM D2896		8.0	8.1	
	Visc @ 100°C	cSt	ASTM D445		13.7	▲ 10.2	
	1.00 @ 100 0	001	7.0.1W D440		10.7		







Certificate L2367

Laboratory Sample No. Unique Number : 11045723

Lab Number : 06188971

: JR0212765

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

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

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 23 May 2024 : 24 May 2024 : 28 May 2024 - Sean Felton

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP

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. sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

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