

JOHN DEERE 650K-II 1T0650KKHMF398685

Diesel Engine

onen

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

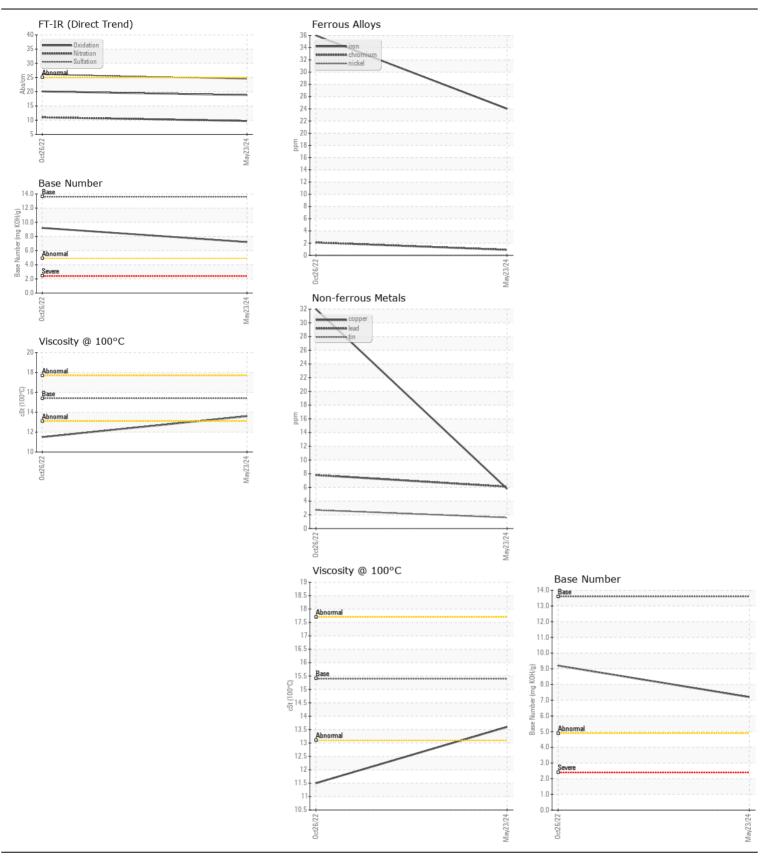
	5 50 11 15 10	40 (- GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212206	JR0148505	
	Sample Date		Client Info		23 May 2024	26 Oct 2022	
	Machine Age	hrs	Client Info		959	447	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAR Metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>51	24	36	
	Chromium	ppm	ASTM D5185m		<1	2	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m		6	9	
	Lead	ppm	ASTM D5185m		6	8	
	Copper	ppm	ASTM D5185m		6	32	
	Tin	ppm	ASTM D5185m		2	3	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
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CONTAMINATION	Silicon	ppm	ASTM D5185m		7	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	2	
	Fuel		WC Method	>2.1	<1.0	0.8	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol	01	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.5	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	11.0	
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		24.5 NONE	26.1 NONE	
	Debris	scalar	*Visual	NONE NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar 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	4	3	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		149	98	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		188	193	
	Manganese	ppm	ASTM D5185m		1	4	
	Magnesium	ppm	ASTM D5185m		614	625	
	Calcium	ppm	ASTM D5185m		1746	1811	
	Phosphorus	ppm	ASTM D5185m		981	907	
	Zinc	ppm	ASTM D5185m		1117	1198	
	Sulfur	ppm	ASTM D5185m		3494	3522	
	Oxidation	Abs/.1mm	*ASTM D7414		18.8	20.1	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.2	9.2	

Visc @ 100°C cSt

ASTM D445 15.4

11.5

13.6



JRE - ASHLAND Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0212206 Received : 29 May 2024 11047 LEADBETTER RD Lab Number : 06194762 Tested : 30 May 2024 ASHLAND, VA Unique Number : 11056885 Diagnosed : 30 May 2024 - Wes Davis US 23005 Test Package : CONST (Additional Tests: TBN) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292