

Area



JOHN DEERE 544K-II 1DW544KZCHF682113

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (22 QTS)

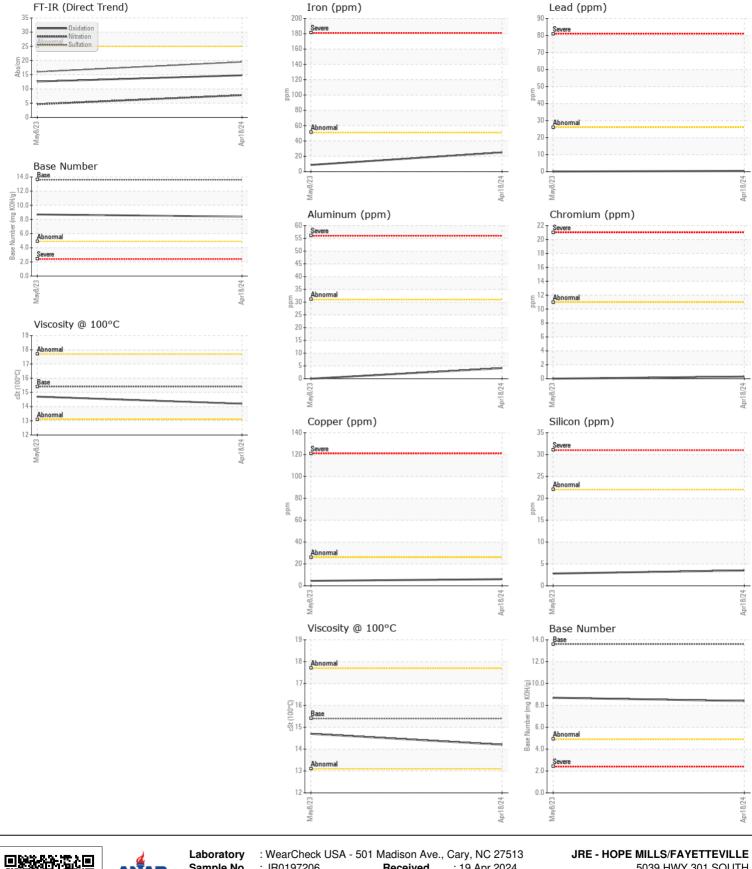
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. (Customer Sample Comment: W8784)	Sample Number		Client Info		JR0197206	JR0167717	
	Sample Date		Client Info		18 Apr 2024	08 May 2023	
	Machine Age	hrs	Client Info		3122	2786	
	Oil Age	hrs	Client Info		500	2786	
	Filter Age	hrs	Client Info		500	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	25	9	
	Chromium	ppm	ASTM D5185m	>11	<1	0	
	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		4	0	
	Lead	ppm	ASTM D5185m	>26	<1	0	
	Copper	ppm	ASTM D5185m		6	4	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon		ACTM DE105m		л	0	
CONTAMINATION		ppm	ASTM D5185m		4	3	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1		
	Fuel		WC Method		<1.0 NEG	<1.0	
	Water		WC Method WC Method	>0.21	NEG	NEG NEG	
	Glycol Soot %	0/	*ASTM D7844	. 0			
	Nitration	%	*ASTM D7644		0.6 7.8	0.1	
		Abs/cm				4.6 16.0	
	Sulfation Silt	Abs/.1mm	*ASTM D7415		19.5 NONE	NONE	
	Debris	scalar	*Visual	NONE NONE	NONE	NONE	
		scalar	*Visual				
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML NORML	
	Emulsified Water	scalar scalar	*Visual *Visual	NORML >0.21	NORML NEG	NEG	
		Joalar	Violai	>0.L1			
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>31	3	0	
	Boron	ppm	ASTM D5185m		51	15	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		76	57	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		794	835	
	Calcium	ppm	ASTM D5185m		1315	1105	
	Phosphorus	ppm	ASTM D5185m		985	989	
	Zinc	ppm	ASTM D5185m		1147	1194	
	Sulfur	ppm	ASTM D5185m		3604	3367	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	12.6	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.4	8.7	
	Vian @ 100°C	oC+	ACTM D445	15 4	14.0	147	

Visc @ 100°C cSt

ASTM D445 15.4

14.7

14.2



Sample No. : JR0197206 Received 5039 HWY 301 SOUTH : 19 Apr 2024 Lab Number : 06154165 Tested HOPE MILLS, NC : 23 Apr 2024 Diagnosed : 23 Apr 2024 - Don Baldridge US 28348 Unique Number : 10989588 Test Package : MOBCE (Additional Tests: TBN) Contact: FAYETTEVILLE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)