WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



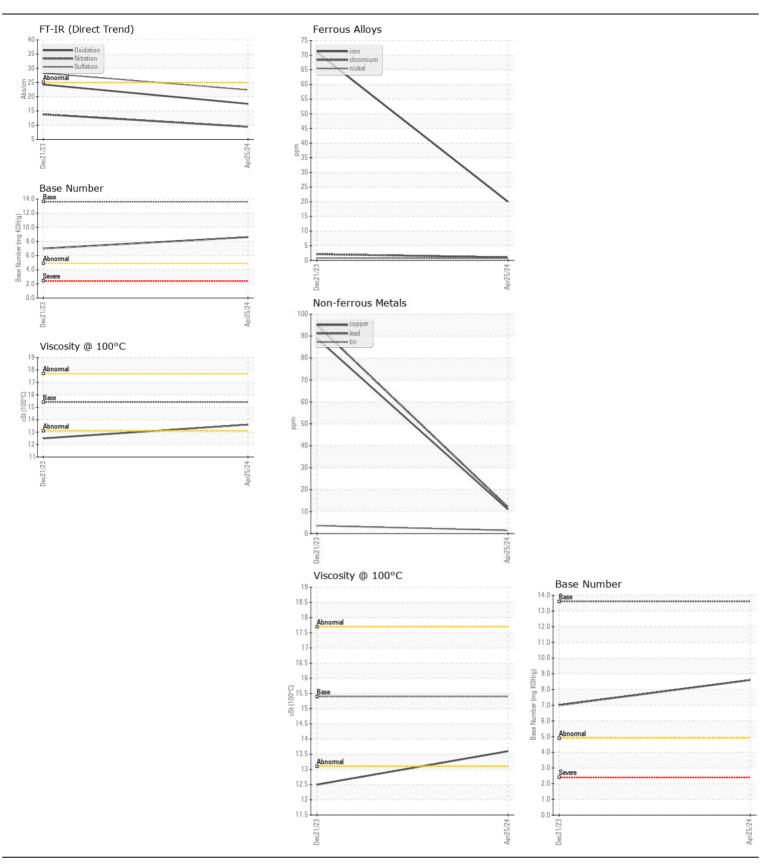
Machine Id

JOHN DEERE 550K 437211

Diesel Engine

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

DECOMMENDATION							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212824	JR0100320	
Trocampo at the next service mental to memory	Sample Date		Client Info		25 Apr 2024	21 Dec 2023	
	Machine Age	hrs	Client Info		1611	1230	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	20	<u> </u>	
WEATT	Chromium	ppm	ASTM D5185m		1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m	70	<1	0	
	Silver	ppm	ASTM D5185m	~3	0	0	
	Aluminum	ppm	ASTM D5185m		6	8	
	Lead	ppm	ASTM D5185m		12	<u></u> 495	
	Copper	ppm	ASTM D5185m		11	▲ 89	
	Tin	ppm	ASTM D5185m		1	4	
	Vanadium	ppm	ASTM D5185m		- <1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
			v 100aa1				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	9	11	
	Potassium	ppm	ASTM D5185m	>20	3	1	
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	1.2	
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	13.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	28.3	
	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	
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	1	5	
	Boron		ASTM D5185m	/ 01	226	23	
	Barium	ppm	ASTM D5185m		3	<1	
	Molybdenum	ppm	ASTM D5185m		257	203	
	Manganese	ppm	ASTM D5185m		1	4	
	Magnesium	ppm	ASTM D5185m		800	556	
	Calcium	ppm	ASTM D5185m		1476	1870	
	Phosphorus	ppm	ASTM D5185m		922	961	
	Zinc	ppm	ASTM D5185m		1096	1203	
	Sulfur	ppm	ASTM D5185m		3279	3102	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	24.3	
	Base Number (BN)				8.6	7.0	
	Visc @ 100°C	cSt	ASTM D445		13.6	12.5	
					.3.0	0	







Certificate L2367

Laboratory Sample No.

Lab Number : 06161310 Unique Number : 10996733

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0212824

Received **Tested** Diagnosed

: 26 Apr 2024 : 28 Apr 2024 : 29 Apr 2024 - Don Baldridge Test Package : CONST (Additional Tests: TBN)

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC US 27529

Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

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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