WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

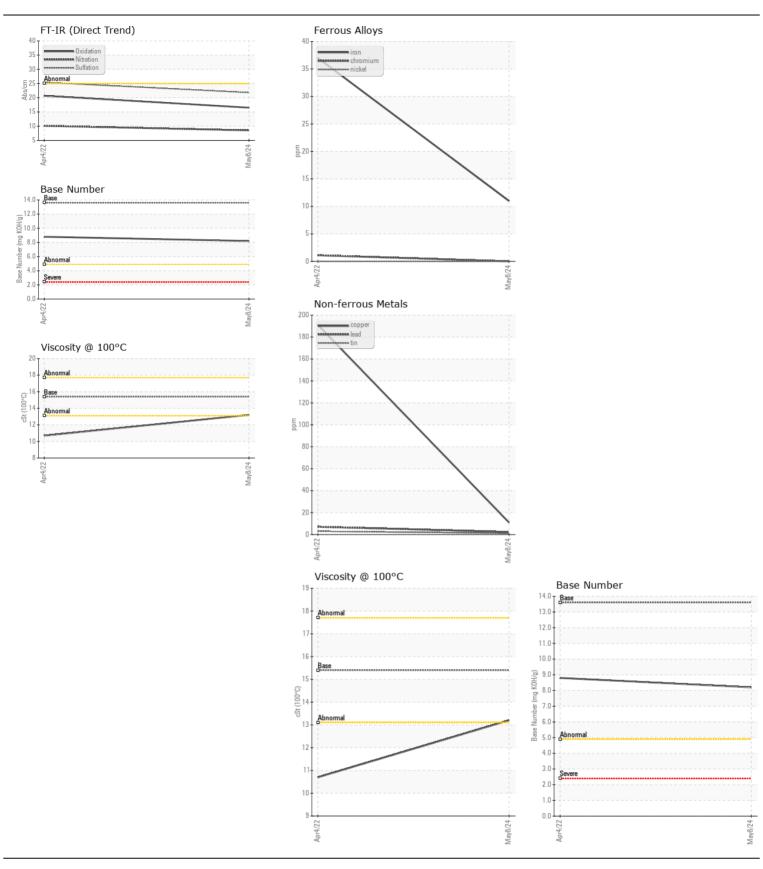
Machine Id

JOHN DEERE 310SL 1T0310SLCJF343241

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		JR0170712	JR0020948	
	Sample Date		Client Info		08 May 2024	04 Apr 2022	
	Machine Age	hrs	Client Info		793	489	
	Oil Age	hrs	Client Info		793	0	
	Filter Age	hrs	Client Info		793	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185m	>51	11	37	
	Chromium	ppm	ASTM D5185m		0	1	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	<1	
	Aluminum	ppm	ASTM D5185m	>31	7	11	
	Lead	ppm	ASTM D5185m		2	7	
	Copper	ppm	ASTM D5185m	>26	11	<u> </u>	
	Tin	ppm	ASTM D5185m	>4	1	3	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 22	7	13	
CONTAIMINATION	Potassium	ppm	ASTM D5185m		1	1	
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	0.2	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	70.21	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	10.1	
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	25.4	
	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	
LUID CONDITION	Codium		ACTM DE10Em	. 01	2	6	
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	>31	250	6 198	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		259	247	
	Manganese	ppm	ASTM D5185m		<1	4	
	Magnesium	ppm	ASTM D5185m		836	893	
	Calcium	ppm	ASTM D5185m		1459	1707	
	Phosphorus	ppm	ASTM D5185m		945	944	
	Zinc	ppm	ASTM D5185m		1090	1082	
	Sulfur	ppm	ASTM D5185m		3459	2758	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	20.7	
	Base Number (BN)		ASTM D2896		8.2	8.8	
	Visc @ 100°C	cSt	ASTM D445		13.2	10.7	







Certificate L2367

Laboratory

Sample No.

Lab Number : 06175236 Unique Number : 11021289

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0170712 Received

Tested Test Package : CONST (Additional Tests: TBN)

: 13 May 2024 Diagnosed : 13 May 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 10 May 2024

Contact: RONNIE MITCHELL ronnie.mitchell@jre.com T: (540)380-2011

* - 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)

JRE - RICHLANDS

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