WEAR CONTAMINATION FLUID CONDITION

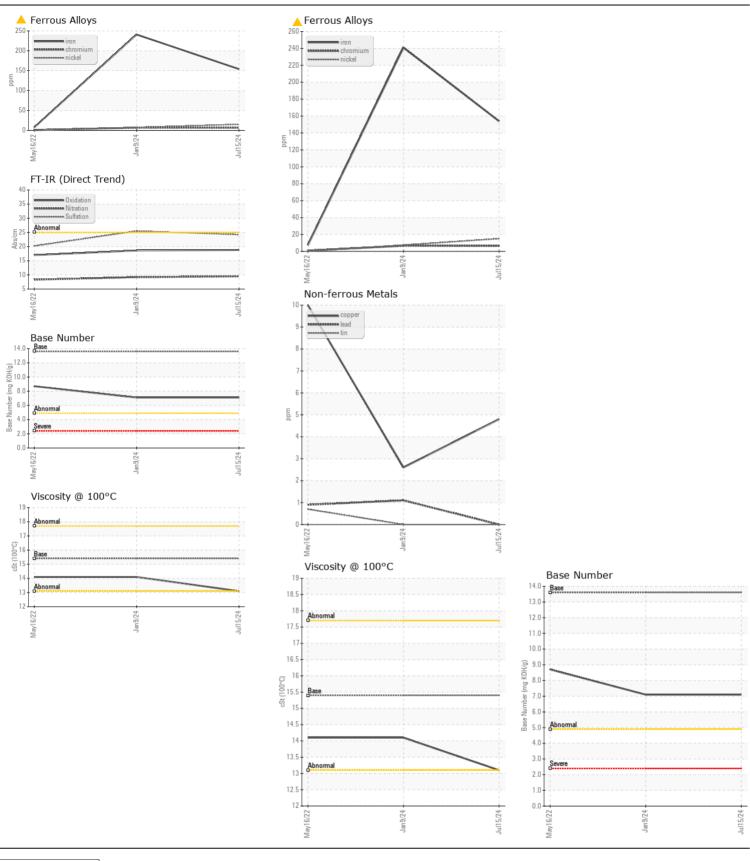
ABNORMAL NORMAL NORMAL

[05W48196]

JOHN DEERE 624L L-227 (S/N 1DW624LZTMF709007)

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0226803	JR0196042	JR0126507
	Sample Date		Client Info		15 Jul 2024	09 Jan 2024	16 May 202
	Machine Age	hrs	Client Info		9909	9079	3098
	Oil Age	hrs	Client Info		830	5981	0
	Filter Age	hrs	Client Info		830	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	SEVERE	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>51	<u> </u>	2 41	7
Valve wear is indicated. Cylinder, crank, or cam shaft wear is indicated.	Chromium	ppm	ASTM D5185m	>11	6	7	<1
	Nickel	ppm	ASTM D5185m		1 5	<u>^</u> 7	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		13	5	2
	Lead	ppm	ASTM D5185m	>26	0	1	<1
	Copper	ppm	ASTM D5185m	>26	5	3	10
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	-22	12	14	8
ONTAMINATION	Potassium	ppm	ASTM D5185m		1	3	<1
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.7	1	0
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.2	8.3
	Sulfation	Abs/.1mm	*ASTM D7415		24.2	25.5	20.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
LUD CONDITION	O - all		AOTA D5405	0.4			40
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	<1	18
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		73	72	31
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		211	242	48
	Manganese Magnesium	ppm	ASTM D5185m		2 767	3	<1
	Calcium	ppm	ASTM D5185m ASTM D5185m		767 1508	806 1357	577 1560
		ppm	ASTM D5185m			891	769
	Phosphorus Zinc	ppm	ASTM D5185m		830 987	1033	909
	Sulfur	ppm	ASTM D5185m			2941	2166
	Oxidation	ppm Abe/1mm		> 2F	3201		
	Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		18.8 7.1	18.6 7.1	17.0 8.7
	DASE MUMBER (BIVI)	THU NUM/O	MAD LIVI LIZAMA	1.2.0		/	0 /





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06237552

: JR0226803

Received **Tested** Unique Number : 11126386 Diagnosed

: 17 Jul 2024 Test Package : CONST (Additional Tests: TBN)

: 18 Jul 2024 - Sean Felton

: 16 Jul 2024

C & D RECOVERY 24024 FREDERICK RD CLARKSBURG, MD US 20871 Contact: HERBIE TRENT

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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F: