



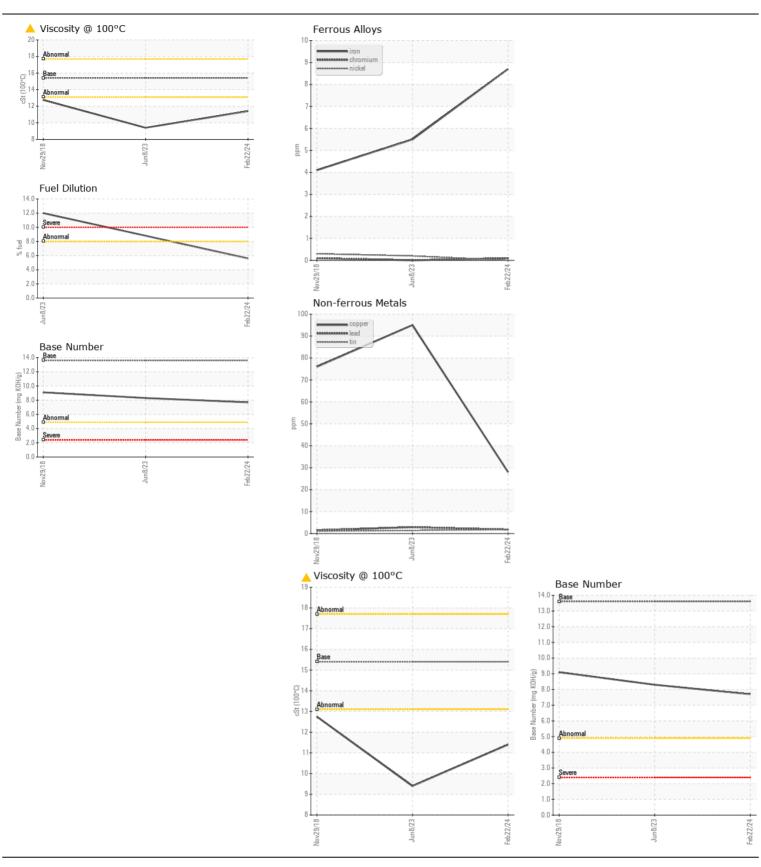
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ABNORMAL

Store 5 - Cross Lanes [RO#147149] JOHN DEERE 1050K 1T01050PCJF323379

Component Diesel Engine

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0048644	LEC0035503	LECP18744
	Sample Date	laua	Client Info		22 Feb 2024	08 Jun 2023 643	29 Nov 2018 604
	Machine Age	hrs			1208 565		604
	Oil Age Filter Age	hrs hrs	Client Info		565	39 39	604
	Oil Changed	1115	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Ollerit IIIIO		ABNORMAL	SEVERE	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>37	9	6	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	1	1
	Lead	ppm	ASTM D5185m		2	3	2
	Copper	ppm	ASTM D5185m		28	<u> </u>	76
	Tin	ppm	ASTM D5185m	>4	2	1	1
	Vanadium	ppm	ASTM D5185m	NONE	0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	7	5	7
	Potassium	ppm	ASTM D5185m		3	2	3
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>8.0	5.6	1 2.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.0	5.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.5	18.2
	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	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	4	4
	Boron	ppm	ASTM D5185m	701	205	97	91
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		9	0	<1
	Molybdenum	ppm	ASTM D5185m		195	32	28
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		619	577	557
	Calcium	ppm	ASTM D5185m		1235	1262	1236
	Phosphorus	ppm	ASTM D5185m		865	848	872
	Zinc	ppm	ASTM D5185m		972	1022	937
	Sulfur	ppm	ASTM D5185m		2970	3761	3637
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	14.4	11.8
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7	8.3	9.1
	Visc @ 100°C	cSt	ASTM D445	4 - 4	<u></u> 11.4	9.4	12.75







Certificate L2367

Laboratory Sample No.

Lab Number : 06100000

: LEC0048644 Unique Number : 10898230

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 **Tested**

: 27 Feb 2024 Diagnosed

: 28 Feb 2024 - Jonathan Hester Test Package : CONST (Additional Tests: PercentFuel, TBN)

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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