



WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL



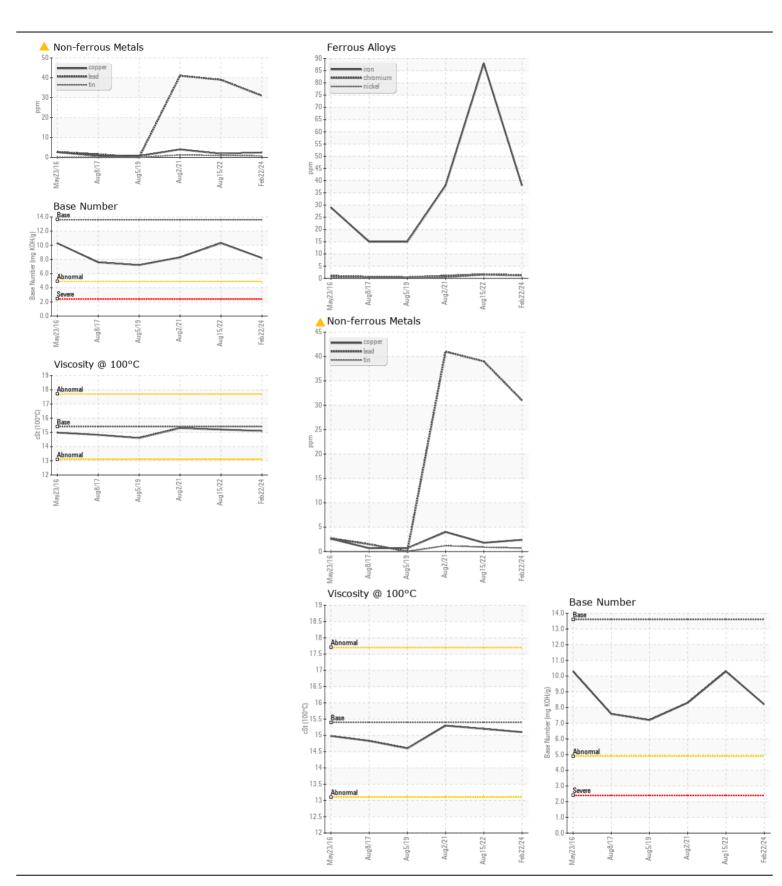
Store 2 - Beaver [RO#148195]

Machine Id

JOHN DEERE 310G T0310GX949926

Component Diesel Engine

JOHN DEERE ENGINE OIL PLU	JS 50 II 15W	40 (9	QTS)		.,		
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		LEC0048457	LEC0032510	LEC0022535
	Sample Date		Client Info		22 Feb 2024	15 Aug 2022	02 Aug 2021
	Machine Age	hrs	Client Info		2869	2614	2371
	Oil Age	hrs	Client Info		255	243	343
	Filter Age	hrs	Client Info		255	243	343
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	38	<u> </u>	38
The lead level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1	2	1
	Nickel	ppm	ASTM D5185m	>5	1	1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	5	0
	Lead	ppm	ASTM D5185m	>26	<u>▲</u> 31	△ 39	<u>41</u>
	Copper	ppm	ASTM D5185m		2	2	4
	Tin	ppm	ASTM D5185m	>4	<1	<1	1
	Vanadium	ppm	ASTM D5185m		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	7	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	1
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.6	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	11.2	10.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	24.5	23.9
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<u></u>	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	<1
The DNI could be decided that the could be within the allegation and the first course of the country to the	Boron	ppm	ASTM D5185m		216	225	299
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	0
	Molybdenum	ppm	ASTM D5185m		258	270	275
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		825	812	845
	Calcium	ppm	ASTM D5185m		1465	1523	1722
	Phosphorus	ppm	ASTM D5185m		910	941	1016
	Zinc	ppm	ASTM D5185m		1118	1141	1162
	Sulfur	ppm	ASTM D5185m	0.5	3201	3328	2870
	Oxidation	Abs/.1mm	*ASTM D7414		19.7	20.3	20.8
	Base Number (BN)				8.2	10.3	8.3
	Visc @ 100°C	cSt	ASTM D445	15.4	15.1	15.2	15.3







Report Id: LESMAROH [WUSCAR] 06102781 (Generated: 02/29/2024 21:35:08) Rev: 1

Laboratory Sample No.

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

Lab Number : 06102781

Unique Number : 10901011

: LEC0048457

Received : 28 Feb 2024 : 29 Feb 2024 **Tested** : 29 Feb 2024 - Don Baldridge Diagnosed

Test Package : CONST (Additional Tests: 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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