



WEAR
CONTAMINATION
FLUID CONDITION

SEVERE NORMAL NORMAL

Car

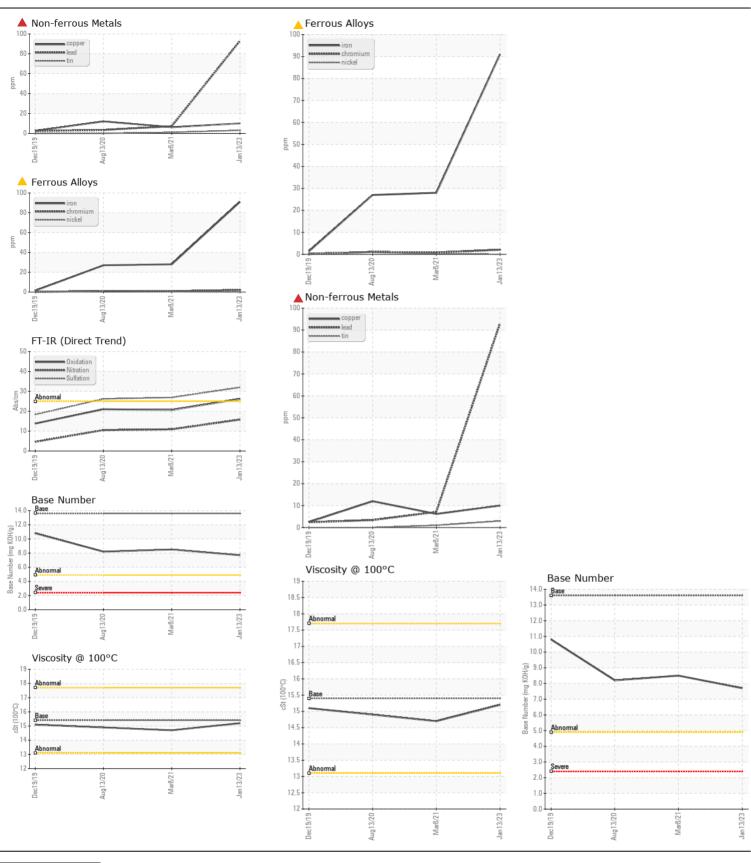
Store 8 - Pikeville

JOHN DEERE 130G 1FF130GXJJF042048

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TIEOGNINIENDATION	Sample Number	COM	Client Info	Ellille / toll	LEC0037508	LEC0019516	
Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Date		Client Info		13 Jan 2023	08 Mar 2021	13 Aug 2020
	Machine Age	hrs	Client Info		3689	2087	1520
	Oil Age	hrs	Client Info		1602	567	500
	Filter Age	hrs	Client Info		1602	567	500
	Oil Changed	1110	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Onorte inio		SEVERE	NORMAL	NORMAL
WEAR Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.	Iron	ppm	ASTM D5185m	>51	<u> </u>	28	27
	Chromium	ppm	ASTM D5185m	>11	2	<1	1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m	>31	15	5	7
	Lead	ppm	ASTM D5185m	>26	▲ 93	7	3
	Copper	ppm	ASTM D5185m	>26	10	6	12
	Tin	ppm	ASTM D5185m	>4	3	1	0
	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		ACTM DE10Em	. 100	45	E	7
CONTAMINATION		ppm	ASTM D5185m		15 6	5 1	1
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method			<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
			WC Method	>0.21	NEG	NEG	NEG
	Glycol Soot %	%	*ASTM D7844	. 2	2	1.1	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	15.8	10.9	10.5
	Sulfation	Abs/.1mm	*ASTM D7024		32.0	26.9	26.2
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	5	5
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		31	143	75
oil.	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		206	247	173
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m		576	795	594
	Calcium	ppm	ASTM D5185m		1879	1570	1688
	Phosphorus	ppm	ASTM D5185m		930	871	898
	Zinc	ppm	ASTM D5185m		1133	1073	1004
	Sulfur	ppm	ASTM D5185m		3102	2742	2352
	Oxidation	Abs/.1mm	*ASTM D7414		26.2	20.6	21
	Base Number (BN)		ASTM D2896		7.7	8.5	8.2
	Visc @ 100°C	cSt	ASTM D445	15.4	15.2	14.7	14.9







Report Id: LESMAROH [WUSCAR] 05740425 (Generated: 06/07/2024 09:18:16) Rev: 1

Laboratory Sample No.

Lab Number : 05740425 Unique Number : 10295024

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0037508

Received **Tested**

: 17 Jan 2023 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 18 Jan 2023

: 18 Jan 2023 - Jonathan Hester

Contact: LEANNE KENDALL KendalLeanne@lec1.com

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR.

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.

F: (740)373-5570

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

MARIETTA, OH

US 45750-9765