

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

Area

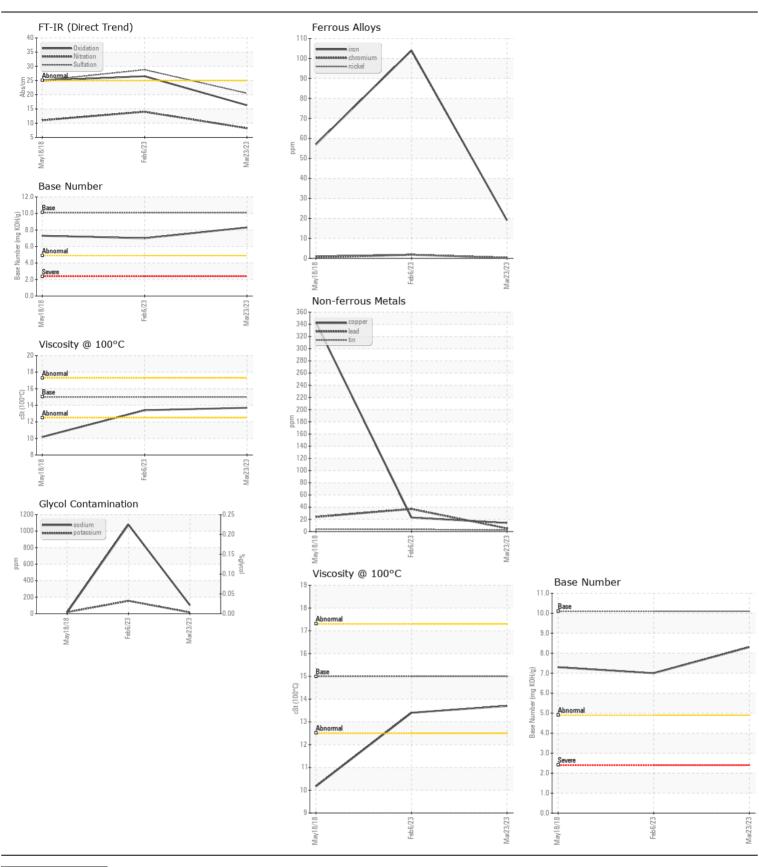
Store 8 - Pikeville

JOHN DEERE EX-08

Diesel Engine

SHELL ROTELLA T4 15W40 (14 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LECP139511	LEC0033820	LECP18850
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		23 Mar 2023	06 Feb 2023	18 May 201
	Machine Age	hrs	Client Info		2380	2104	575
	Oil Age	hrs	Client Info		250	568	575
	Filter Age	hrs	Client Info		250	568	575
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	SEVERE	ABNORM <i>A</i>
WEAR	Iron	ppm	ASTM D5185m	>51	19	<u></u> 104	57
	Chromium	ppm	ASTM D5185m		<1	2	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	2	1
	Titanium	ppm	ASTM D5185m		0	1	12
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		0	<u>14</u>	6
	Lead	ppm	ASTM D5185m		5	<u> </u>	24
	Copper	ppm	ASTM D5185m		14	23	<u>▲</u> 343
	Tin	ppm	ASTM D5185m		2	4	4
	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	nnm	ASTM D5185m	- 120	e	▲ 35	9
CONTAMINATION	Potassium	ppm	ASTM D5185m		6 16	▲ 155	18
Sodium and/or potassium levels are high. Test for glycol is negative.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		< 1.0 NEG	NEG	NEG
	Glycol	%	*ASTM D2982	>0.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.3	0.5	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	14.0	11.
	Sulfation	Abs/.1mm	*ASTM D7024		20.5	28.8	25.
	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
THE CONDITION							4.0
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	102	<u>1078</u>	13
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		48	28	62
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		73	259	186
	Manganese	ppm	ASTM D5185m		<1	2	4
	Magnesium	ppm	ASTM D5185m		358	688	702
	Calcium	ppm	ASTM D5185m		1611	1372	1408
	Phosphorus	ppm	ASTM D5185m		880	718	819
	Zinc	ppm	ASTM D5185m		1087	925	1011
	Sulfur	ppm	ASTM D5185m	0.5	3325	3725	2290
	Oxidation	Abs/.1mm	*ASTM D7414		16.3	26.5	25.
	Base Number (BN)				8.3	7.0	7.30
	Visc @ 100°C	cSt	ASTM D445	15	13.7	13.4	10.17







Report Id: FOOWES [WUSCAR] 05832509 (Generated: 04/10/2024 12:53:11) Rev: 1

Laboratory Sample No.

Lab Number : 05832509 Unique Number : 10446002

: LECP139511

Received **Tested** Diagnosed Test Package: CONST (Additional Tests: Glycol, TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 28 Apr 2023 : 02 May 2023

: 02 May 2023 - Jonathan Hester

FOOTHILLS CONTRACTING PO BOX 368

WEST LIBERTY, KY US 41472

Contact: CHANNING FREDERICK

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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)

Contact/Location: CHANNING FREDERICK - FOOWES