



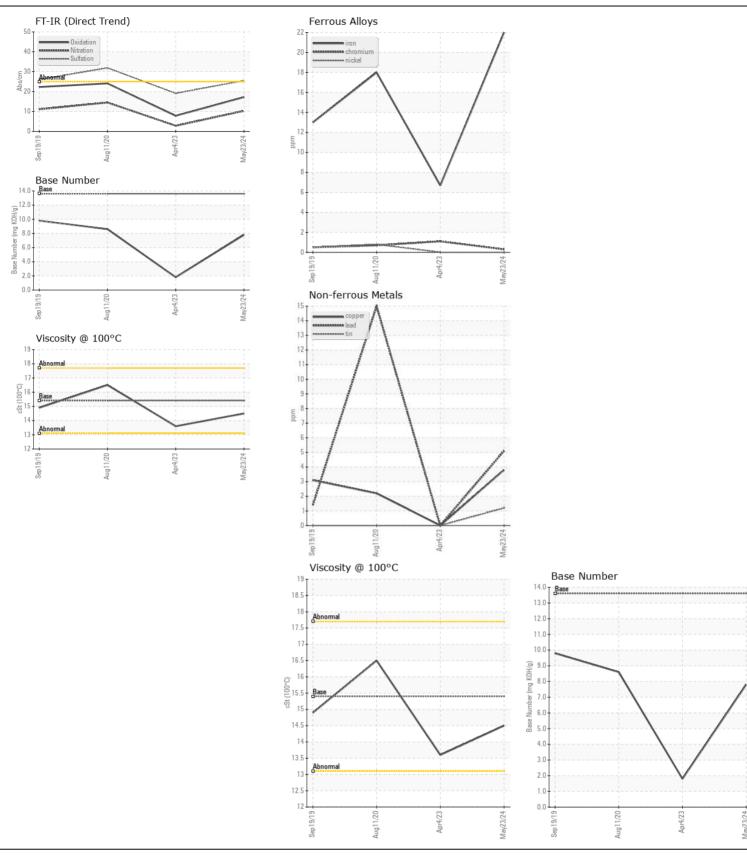
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Store 9 - Marietta

430286

Diesel Engine

IOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0048955	LEC0040471	LEC0014494
Resample at the next service interval to monitor.	Sample Date		Client Info		23 May 2024	04 Apr 2023	11 Aug 2020
	Machine Age	hrs	Client Info		6165	5686	4671
	Oil Age	hrs	Client Info		500	500	600
	Filter Age	hrs	Client Info		500	500	600
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	ABNORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	22	7	18
	Chromium	ppm	ASTM D5185m	>20	<1	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		15	1	11
	Lead	ppm	ASTM D5185m		5	0	15
	Copper	ppm	ASTM D5185m		4	0	2
	Tin	ppm	ASTM D5185m	>15	1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION	Silicon	ppm	ASTM D5185m	>120	7	2	7
CONTAININATION	Potassium	ppm	ASTM D5185m		4	0	8
There is no indication of any contamination in the oil.	Fuel	ρρ	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	2.4	0.1	<b>3.8</b>
	Nitration	Abs/cm	*ASTM D7624	>20	10.3	2.8	14.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	19.1	31.9
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		19	<1	2
EOID CONDITION	Boron	ppm	ASTM D5185m		234	9	144
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		95	59	99
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		468	946	659
	Calcium	ppm	ASTM D5185m		1476	1076	1593
	Phosphorus	ppm	ASTM D5185m		1016	1004	663
	Zinc	ppm	ASTM D5185m		1218	1229	761
	Sulfur	ppm	ASTM D5185m		3388	3751	1823
		P P			5555	0.01	
		Abs/ 1mm	*ASTM D7414	>25	17.2	7.8	24 1
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		17.2 7.8	7.8 <b>1.8</b>	24.1







Laboratory Sample No.

**Lab Number** : 06196415

: LEC0048955 Unique Number : 11058538

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

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

: 31 May 2024 : 03 Jun 2024

: 03 Jun 2024 - Don Baldridge

Contact: JESSE WILBURN

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LANE PIPELINE

2946 E MAIN ST

US 26330

BRIDGEPORT, WV

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)