



WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL ATTENTION

Area

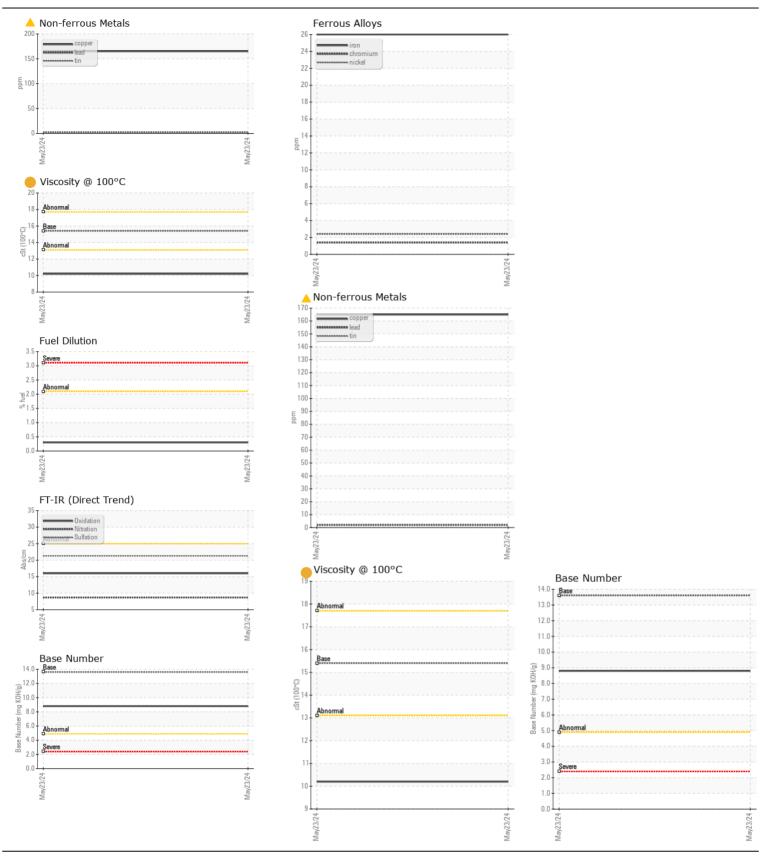


Store 5 - Cross Lanes [151161] JOHN DEERE 544G 1YN544GALPLA00316

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
TEO MINIERDATION	Sample Number	COM	Client Info	Littleyton	LEC0050491		
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 Date		Client Info		23 May 2024		
	Machine Age	hrs	Client Info		447		
	Oil Age	hrs	Client Info		447		
	Filter Age	hrs	Client Info		447		
	Oil Changed	1113	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Client iiiio		ABNORMAL		
					ADNUNIMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	26		
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1		
	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	1		
	Aluminum	ppm	ASTM D5185m	>31	5		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m	>26	165		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Fuel content negligible. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>!20	11		
	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel	%	ASTM D3524	>2.1	0.3		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
ELUID CONDITION	C = ali		ACTM DE10E	04	0		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	8 294		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron Barium	ppm	ASTM D5185m ASTM D5185m				
		ppm			1		
	Molybdenum	ppm	ASTM D5185m		231		
	Manganese	ppm	ASTM D5185m		6 772		
	Magnesium	ppm	ASTM D5185m		773		
	Calcium	ppm	ASTM D5185m		1406		
	Phosphorus	ppm	ASTM D5185m		978		
	Zinc Sulfur	ppm	ASTM D5185m		1128		
		ppm Abo/1mm	ASTM D5185m	. 25	3728		
	Oxidation	Abs/.1mm	*ASTM D7414		16.0		
	Base Number (BN)		ASTM D2896		8.8		
	Visc @ 100°C	cSt	ASTM D445	15.4	10.2		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0050491 Lab Number : 06193625

Unique Number : 11050377

Received **Tested** Diagnosed

: 31 May 2024 : 31 May 2024 - Don Baldridge Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

: 29 May 2024

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)

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765 Contact: LEANNE KENDALL

KendalLeanne@lec1.com T: F: (740)373-5570