



WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

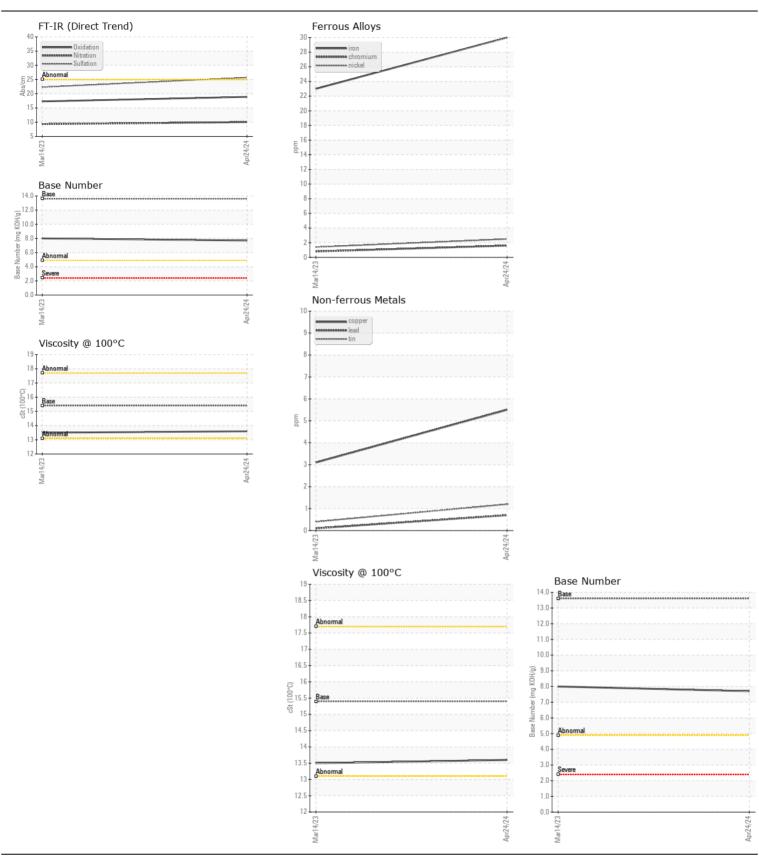
Store 5 - Cross Lanes

JOHN DEERE 648L2 1DW648LBJJF692956

Diesel Engine

FILIOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number		Client Info		LEC0040742	,	
Resample at the next service interval to monitor.	Sample Date		Client Info		24 Apr 2024	14 Mar 2023	
	Machine Age	hrs	Client Info		6354	5123	
	Oil Age	hrs	Client Info		500	1000	
	Filter Age	hrs	Client Info		500	1000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	30	23	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	2	<1	
	Nickel	ppm	ASTM D5185m	>5	2	1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	5	4	
	Lead	ppm	ASTM D5185m	>26	<1	<1	
	Copper	ppm	ASTM D5185m	>26	6	3	
	Tin	ppm	ASTM D5185m	>4	1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		13	10	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4	4	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.9	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415		25.7	22.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m	\31	1	<1	
I LOID CONDITION	Boron	ppm	ASTM D5185m	701	82	109	
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		2	0	
	Molybdenum	ppm	ASTM D5185m		265	90	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		808	569	
	Calcium	ppm	ASTM D5185m		1447	1380	
	Phosphorus	ppm	ASTM D5185m		890	873	
	Zinc	ppm	ASTM D5185m		1093	1087	
	Sulfur	ppm	ASTM D5185m		2958	3227	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	17.3	
	Base Number (BN)				7.7	8.0	
	Visc @ 100°C	cSt	ASTM D2030		13.6	13.5	
	*130 @ 100 U	001	THE INITION	10.4	13.0	10.0	







Report Id: LESMAROH [WUSCAR] 06161301 (Generated: 04/28/2024 23:33:13) Rev: 1

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: LEC0040742 Lab Number : 06161301 Unique Number : 10996724

Received : 26 Apr 2024 **Tested** Diagnosed

: 28 Apr 2024 : 28 Apr 2024 - Wes Davis

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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