



OIL ANALYSIS REPORT

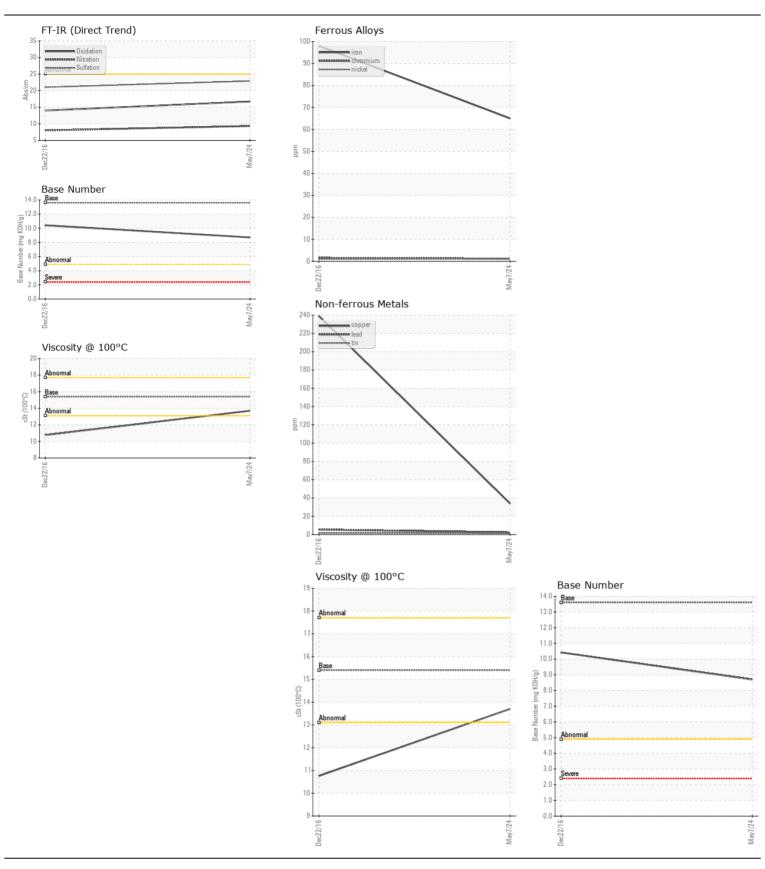
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Store 2 - Beaver [RO#150716] JOHN DEERE 450J 1T0450JXVCD228725

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (15 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0048742	LECP170622	
	Sample Date		Client Info		07 May 2024	22 Dec 2016	
	Machine Age	hrs	Client Info		912	504	
	Oil Age	hrs	Client Info		408	504	
	Filter Age	hrs	Client Info		408	504	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	65	98	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	1	2	
	Nickel	ppm	ASTM D5185m	>5	1	1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		7	12	
	Lead	ppm	ASTM D5185m		2	6	
	Copper	ppm	ASTM D5185m		34	<u>^</u> 239	
	Tin	ppm	ASTM D5185m	>4	1	2	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	9	10	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	4	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		1.2	1	
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.	
	Sulfation	Abs/.1mm	*ASTM D7415		22.9	21.	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance Odor	scalar	*Visual	NORML NORML	NORML	NORML NORML	
	Emulsified Water	scalar	*Visual *Visual	>0.21	NORML NEG	NEG	
·		scalar	VISUAI	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		243	172	
	Barium	ppm	ASTM D5185m		3	2	
	Molybdenum	ppm	ASTM D5185m		276	250	
	Manganese	ppm	ASTM D5185m		2	6	
	Magnesium	ppm	ASTM D5185m		806	834	
	Calcium	ppm	ASTM D5185m		1374	1390	
	Phosphorus	ppm	ASTM D5185m		910	868	
	Zinc	ppm	ASTM D5185m		1027	981	
	Sulfur	ppm	ASTM D5185m		3107	2375	
	Oxidation	Abs/.1mm	*ASTM D7414		16.7	14.	
	Base Number (BN)		ASTM D2896		8.7	10.42	
	Visc @ 100°C	cSt	ASTM D445	15.4	13.7	10.76	







Laboratory Sample No.

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

Lab Number : 06176531 Unique Number : 11022584

: LEC0048742

Received : 10 May 2024 **Tested** : 13 May 2024 Diagnosed

: 13 May 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.

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765

Contact: LEANNE KENDALL KendalLeanne@lec1.com

T:

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

F: (740)373-5570