



WEAR
CONTAMINATION
FLUID CONDITION

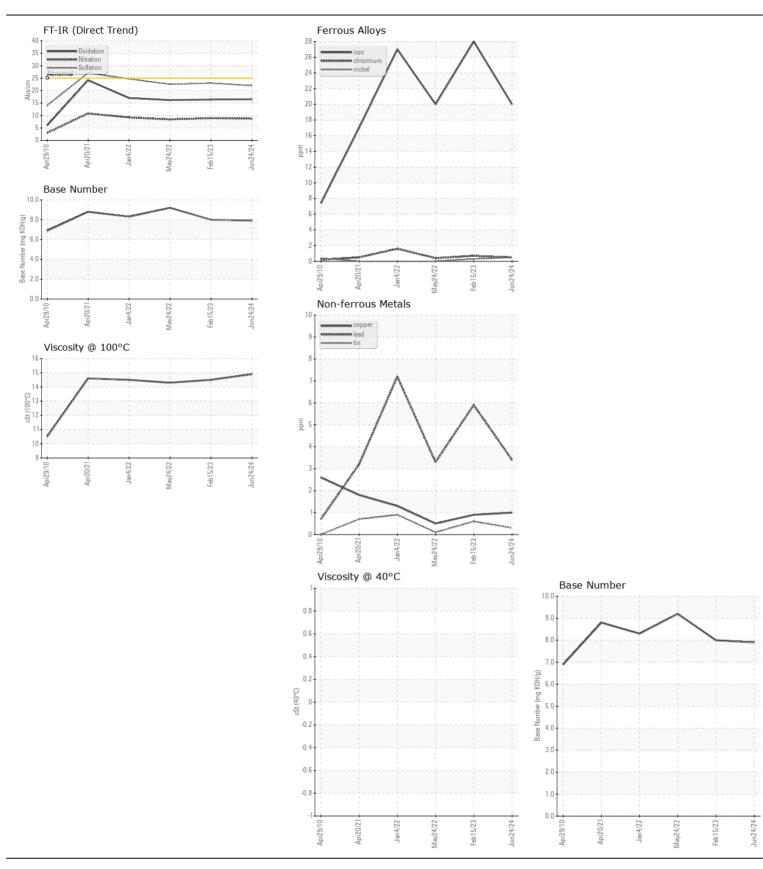
NORMAL NORMAL

## SOLD LOCATIONS - LESCHI - CHILLICOTHE JOHN DEERE 644J DW644JZ616347

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

JOHN DEERE ENGINE OIL PLU	15 50 II 15W	40 (7	GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSIMIERS ATTOM	Sample Number		Client Info		LEC0050862	LEC0038956	LEC0033125
Resample at the next service interval to monitor.	Sample Date		Client Info		24 Jun 2024	15 Feb 2023	24 May 2022
	Machine Age	hrs	Client Info		18841	17371	16524
	Oil Age	hrs	Client Info		1470	847	527
	Filter Age	hrs	Client Info		1470	847	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m		20	28	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver		ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		5	4	3
	Lead	ppm	ASTM D5185m		3	6	3
		ppm	ASTM D5185m		ა 1	<1	<1
	Copper Tin	ppm	ASTM D5185m			<1	<1
	Vanadium	ppm	ASTM D5185m		<1 <1		
	White Metal	ppm	*Visual	NONE	NONE	<1 NONE	<1 NONE
		scalar					
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	7	7
	Potassium	ppm	ASTM D5185m	>20	2	1	0
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		1	1.1	0.5
	Nitration	Abs/cm	*ASTM D7624		8.7	8.9	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		22.0	23.0	22.5
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual		NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	2	1
	Boron	ppm	ASTM D5185m		42	211	240
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	<1	0
	Molybdenum	ppm	ASTM D5185m		57	230	240
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		556	745	796
	Calcium	ppm	ASTM D5185m		1636	1493	1504
	Phosphorus	ppm	ASTM D5185m		1144	840	884
	Zinc	ppm	ASTM D5185m		1356	1070	1027
	Sulfur	ppm	ASTM D5185m		3610	3445	2678
	Oxidation	Abs/.1mm	*ASTM D7414		16.5	16.4	16.2
	Base Number (BN)				7.9	8.0	9.2
	Visc @ 100°C	cSt	ASTM D445		14.9	14.5	14.3







Laboratory Sample No.

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

Lab Number : 06222196 Unique Number : 11100393

: LEC0050862

Received **Tested** Diagnosed

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.

: 28 Jun 2024 - Don Baldridge

: 27 Jun 2024

: 28 Jun 2024

KendalLeanne@lec1.com T:

LESLIE EQUIPMENT COMPANY

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