



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
SOLD LOCATIONS - LESCHI - CHILLICOTHE
 Machine Id
JOHN DEERE 644J DW644JZ616347
 Component
Front Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0050863	LEC0038957	LEC0033126
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		18841	2347	1500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	None	None
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		48	30	40
Iron	ppm	ASTM D5185m		359	282	238
Chromium	ppm	ASTM D5185m		1	1	<1
Nickel	ppm	ASTM D5185m		3	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		3	<1	2
Lead	ppm	ASTM D5185m		42	38	28
Copper	ppm	ASTM D5185m		28	21	15
Tin	ppm	ASTM D5185m		<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

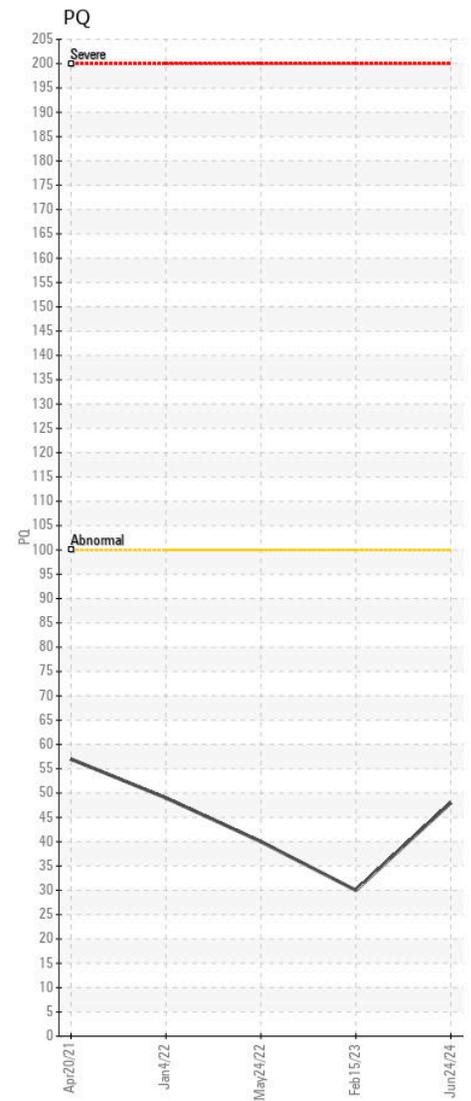
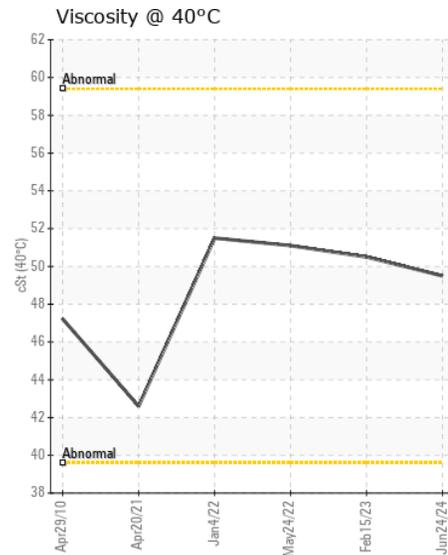
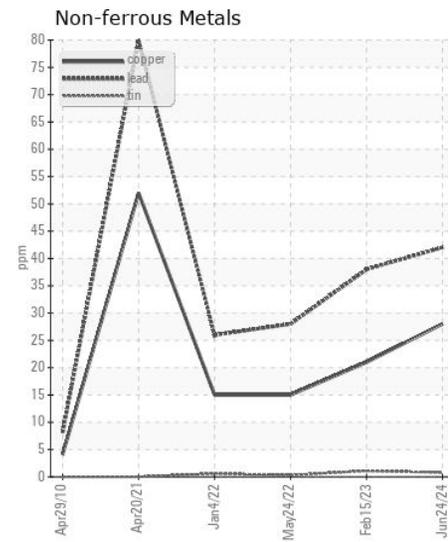
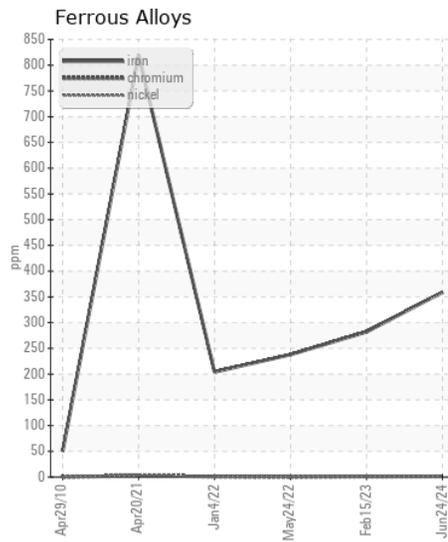
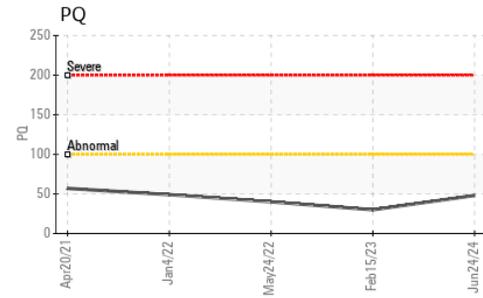
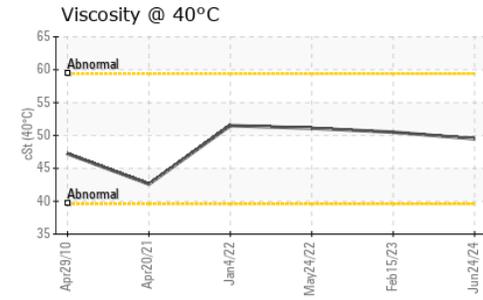
Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		15	12	10
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304		▲ 0.296	---	---
ppm Water	ppm	ASTM D6304		▲ 2960	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	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		0.2%	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	1	<1
Boron	ppm	ASTM D5185m		17	16	20
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	2
Manganese	ppm	ASTM D5185m		3	2	2
Magnesium	ppm	ASTM D5185m		89	94	92
Calcium	ppm	ASTM D5185m		3106	3195	3155
Phosphorus	ppm	ASTM D5185m		1055	917	946
Zinc	ppm	ASTM D5185m		1148	1117	1150
Sulfur	ppm	ASTM D5185m		4983	3838	3490
Visc @ 40°C	cSt	ASTM D445		49.5	50.5	51.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050863 **Received** : 27 Jun 2024
Lab Number : 06222572 **Tested** : 28 Jun 2024
Unique Number : 11100769 **Diagnosed** : 29 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com

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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