



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL

Area
Store 8 - Pikeville
Machine Id
JOHN DEERE 850L 1T0850LXAKF363304
Component
Left Outer Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0050472	LEC0041375	LEC0038307
Sample Date		Client Info		17 Jun 2024	22 May 2023	29 Dec 2022
Machine Age	hrs	Client Info		2157	1720	1415
Oil Age	hrs	Client Info		437	305	1415
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Not Changd	None	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	296	53	60
Iron	ppm	ASTM D5185m	>750	734	113	38
Chromium	ppm	ASTM D5185m	>9	4	<1	<1
Nickel	ppm	ASTM D5185m	>10	▲ 6	<1	0
Titanium	ppm	ASTM D5185m		7	4	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 84	● 79	1
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	1	0	0
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

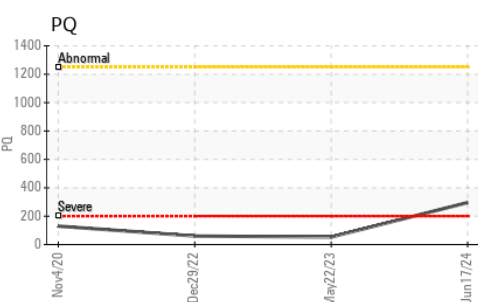
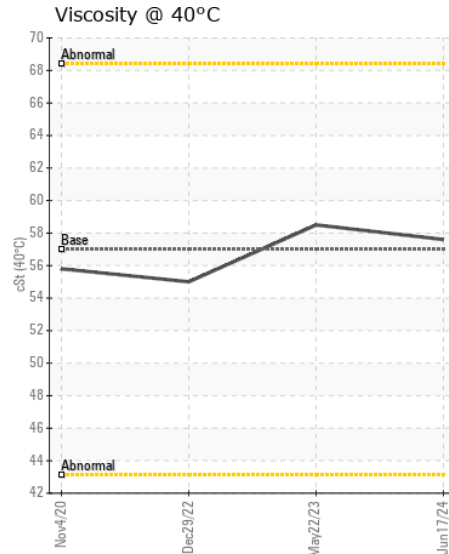
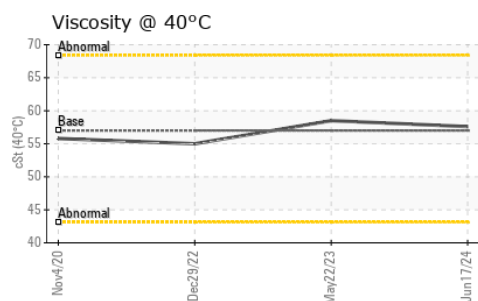
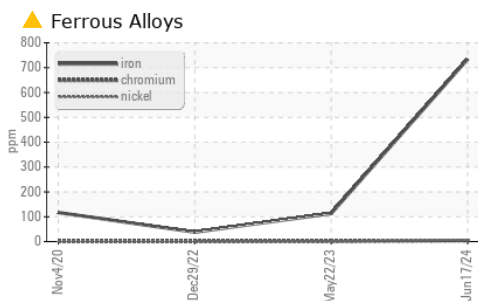
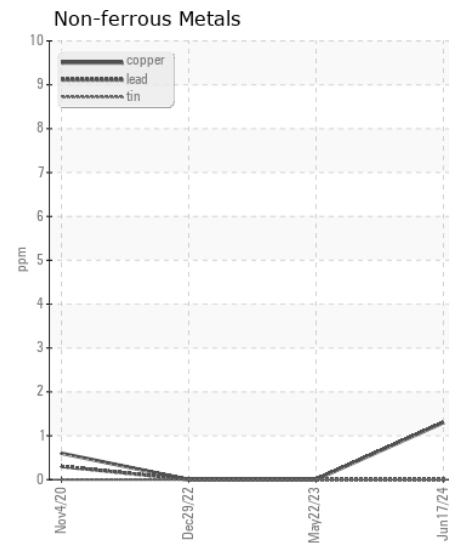
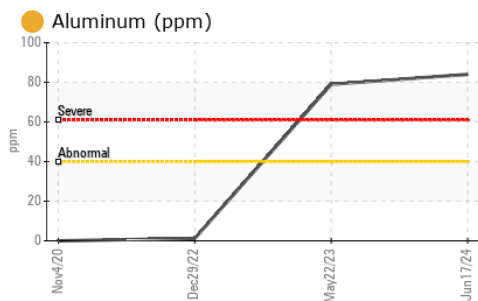
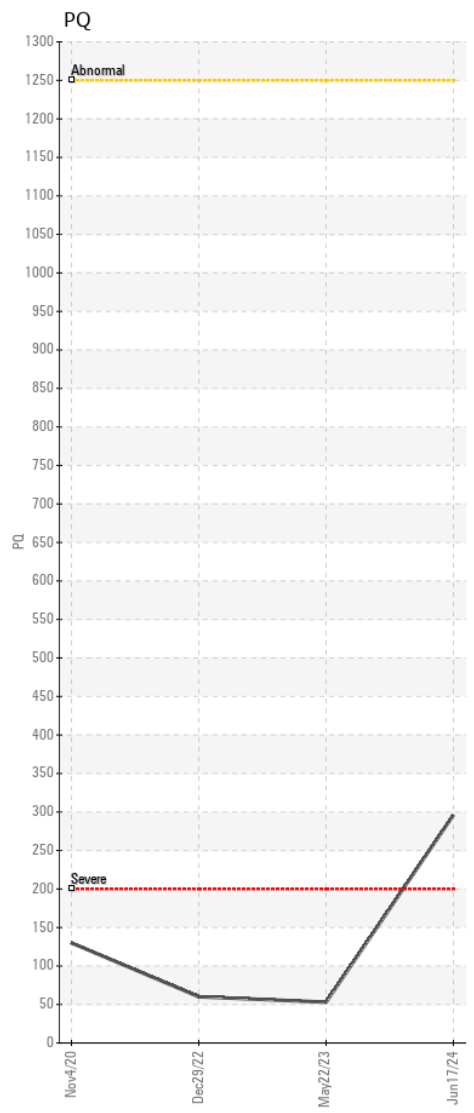
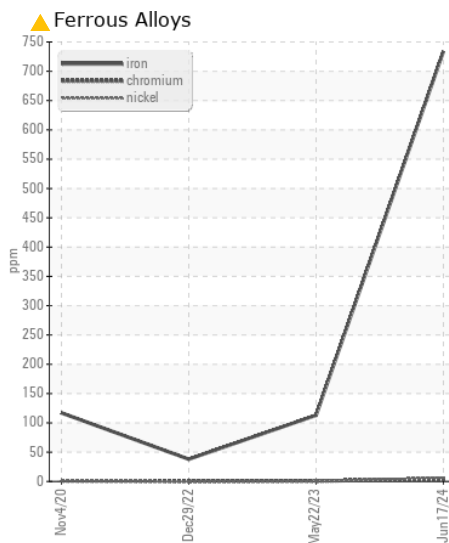
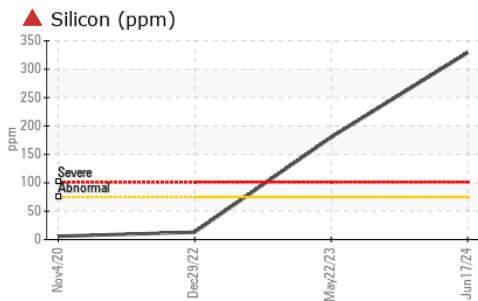
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 329	▲ 180	13
Potassium	ppm	ASTM D5185m	>20	21	19	0
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	7	2	<1
Boron	ppm	ASTM D5185m	6	5	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	5	3	<1
Manganese	ppm	ASTM D5185m		7	2	<1
Magnesium	ppm	ASTM D5185m	145	123	118	101
Calcium	ppm	ASTM D5185m	3570	3463	3430	3505
Phosphorus	ppm	ASTM D5185m	1290	1014	1025	994
Zinc	ppm	ASTM D5185m	1640	1220	1285	1192
Sulfur	ppm	ASTM D5185m		3984	4265	4152
Visc @ 40°C	cSt	ASTM D445	57.0	57.6	58.5	55.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050472 **Received** : 19 Jun 2024
Lab Number : 06214978 **Tested** : 20 Jun 2024
Unique Number : 11087842 **Diagnosed** : 21 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com
 T:
 F: (740)373-5570

Certificate L2367
 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)