



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL



Area
Store 4 - Fairmont [RO# 151949]
Machine Id
JOHN DEERE 700K 1T0700KXKEE268175
Component
Right Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (3 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0050929	LEC0017416	---
Sample Date		Client Info		14 Jun 2024	09 Nov 2020	---
Machine Age	hrs	Client Info		3850	2802	---
Oil Age	hrs	Client Info		1048	2802	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	168	126	---
Iron	ppm	ASTM D5185m	>750	1224	687	---
Chromium	ppm	ASTM D5185m	>9	11	8	---
Nickel	ppm	ASTM D5185m	>10	4	2	---
Titanium	ppm	ASTM D5185m		6	1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>40	79	13	---
Lead	ppm	ASTM D5185m	>15	<1	<1	---
Copper	ppm	ASTM D5185m	>40	2	2	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

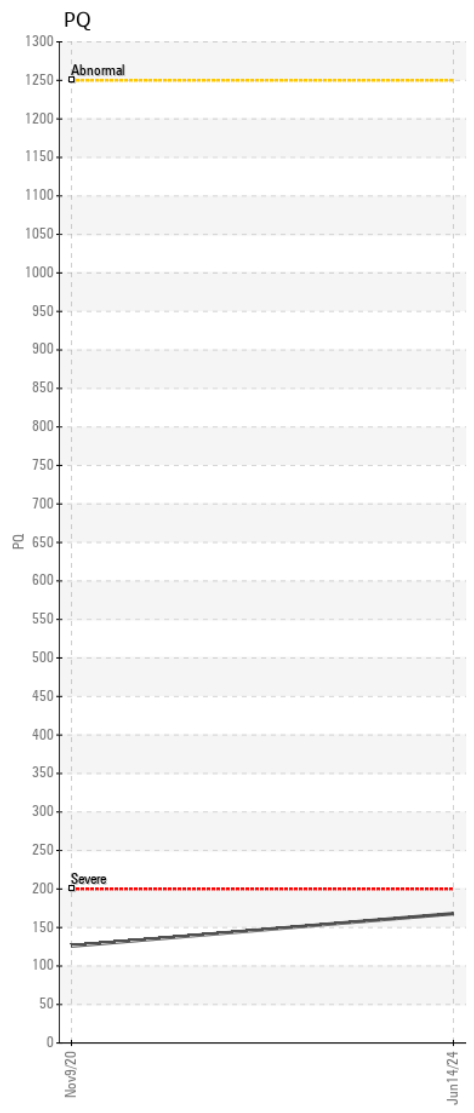
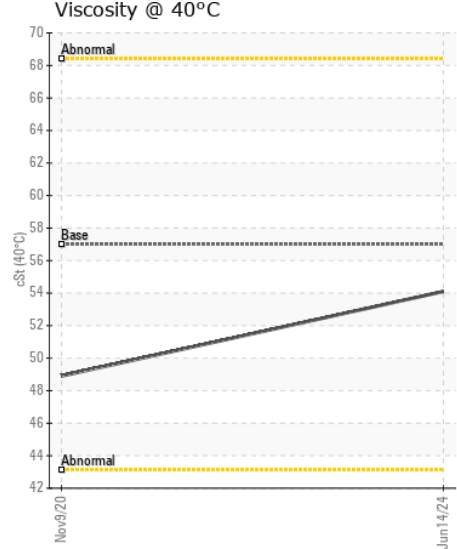
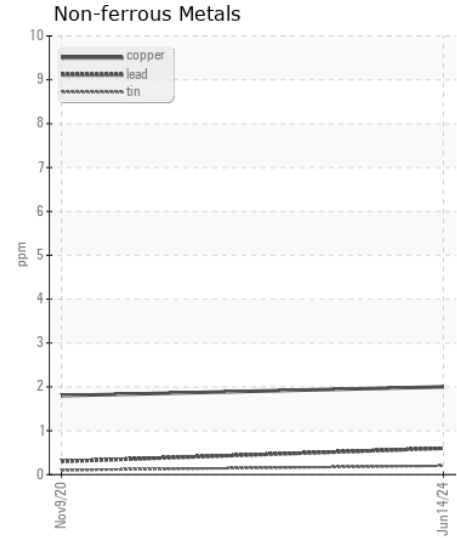
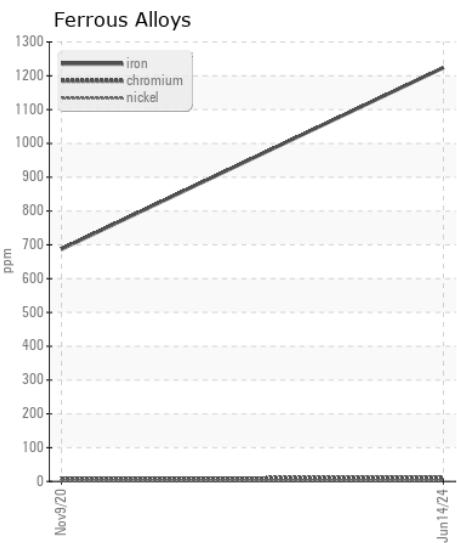
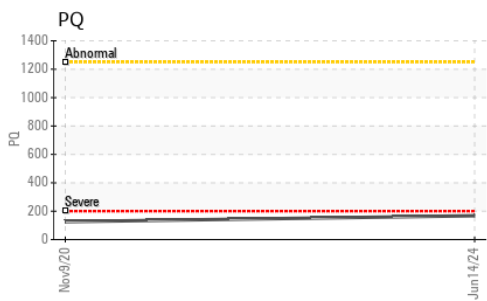
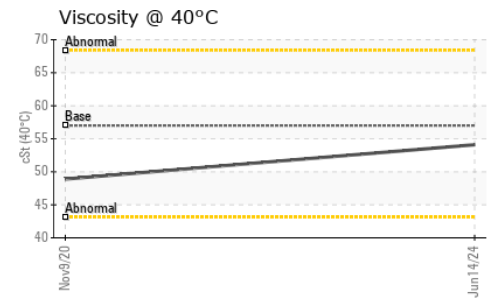
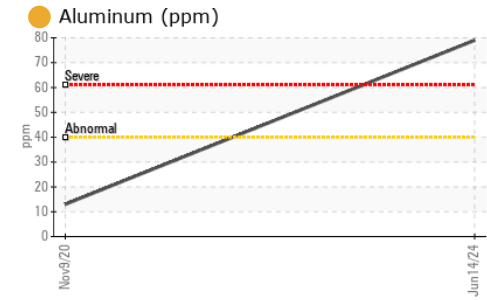
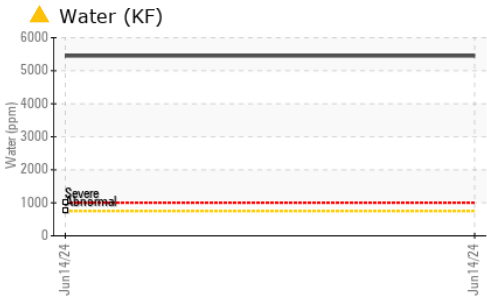
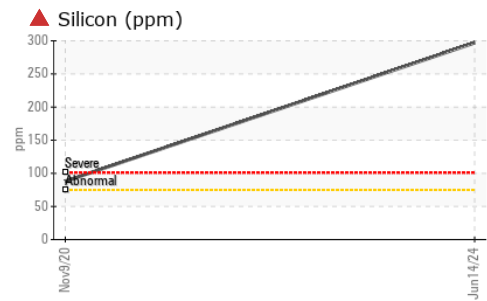
There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 297	▲ 88	---
Potassium	ppm	ASTM D5185m	>20	40	27	---
Water	%	ASTM D6304	>0.075	▲ 0.545	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 5450	---	---
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	>0.075	▲ 0.2%	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	12	4	---
Boron	ppm	ASTM D5185m	6	5	9	---
Barium	ppm	ASTM D5185m	0	<1	0	---
Molybdenum	ppm	ASTM D5185m	0	7	5	---
Manganese	ppm	ASTM D5185m		14	9	---
Magnesium	ppm	ASTM D5185m	145	108	96	---
Calcium	ppm	ASTM D5185m	3570	3600	3693	---
Phosphorus	ppm	ASTM D5185m	1290	1121	1086	---
Zinc	ppm	ASTM D5185m	1640	1170	1270	---
Sulfur	ppm	ASTM D5185m		4299	3530	---
Visc @ 40°C	cSt	ASTM D445	57.0	54.1	48.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050929 **Received** : 21 Jun 2024
Lab Number : 06217063 **Tested** : 24 Jun 2024
Unique Number : 11089927 **Diagnosed** : 24 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

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 MARIETTA, OH
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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)