



OIL ANALYSIS REPORT

WEAR

SEVERE

CONTAMINATION

ABNORMAL

FLUID CONDITION

ABNORMAL



Area

Store 9 - Marietta

Machine Id

JOHN DEERE 50G 1FF050GXEMH295955

Component

Left Propel Gearbox

Fluid

JOHN DEERE HY-GARD HYD/TRANS (0 GAL)

RECOMMENDATION

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		LEC0046329	LEC0034758	---
Sample Date		Client Info		05 Apr 2024	17 Mar 2023	---
Machine Age	hrs	Client Info		830	302	---
Oil Age	hrs	Client Info		528	302	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	None	---
Sample Status				SEVERE	NORMAL	---

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		1049	259	---
Iron	ppm	ASTM D5185m	>1250	▲ 1331	187	---
Chromium	ppm	ASTM D5185m	>10	▲ 26	11	---
Nickel	ppm	ASTM D5185m	>10	6	<1	---
Titanium	ppm	ASTM D5185m		11	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		● 133	5	---
Lead	ppm	ASTM D5185m		2	0	---
Copper	ppm	ASTM D5185m		9	<1	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

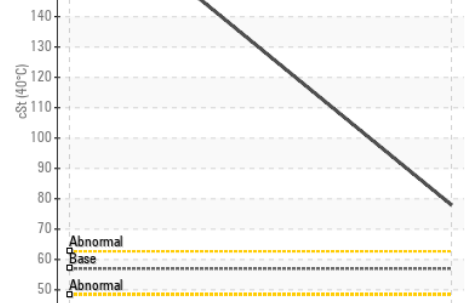
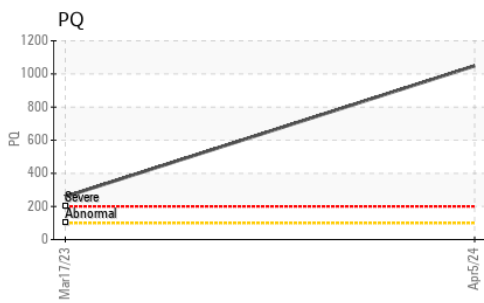
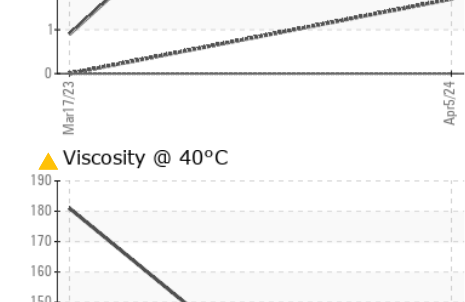
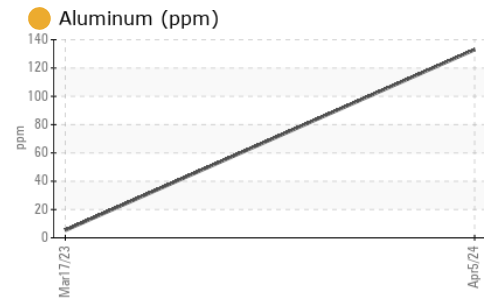
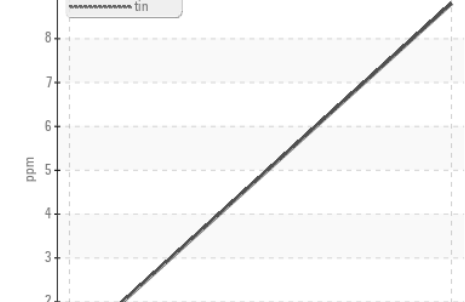
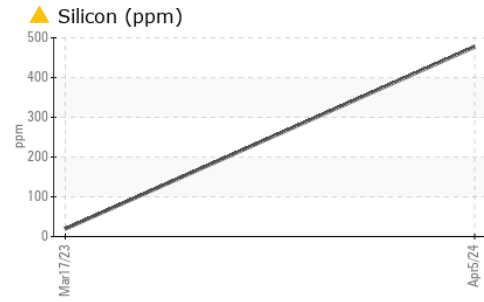
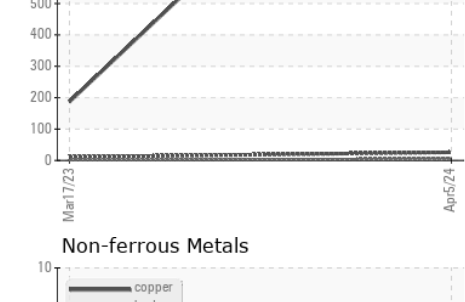
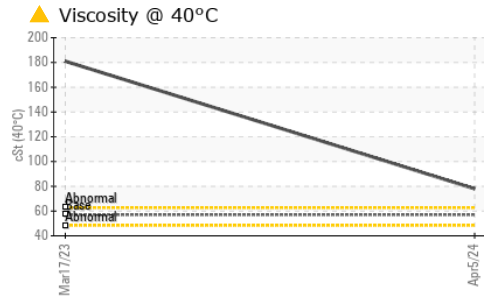
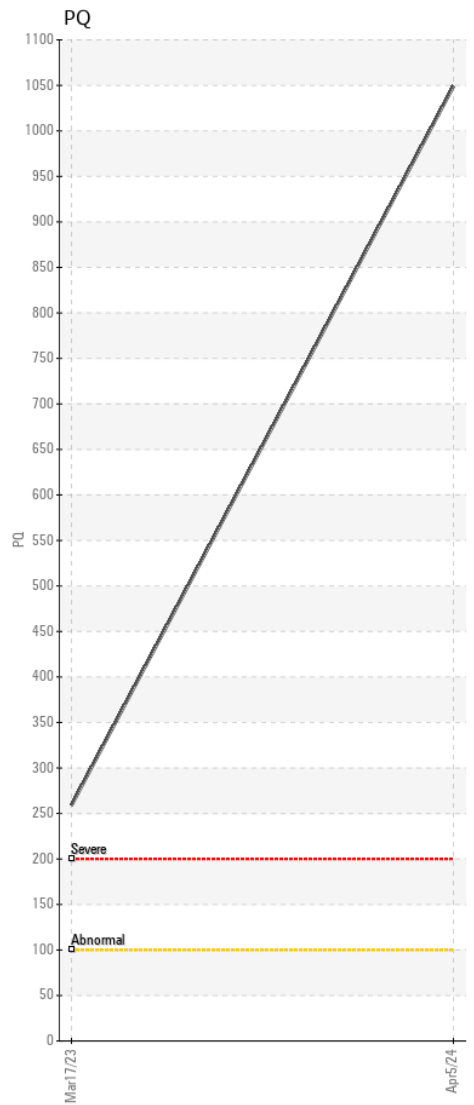
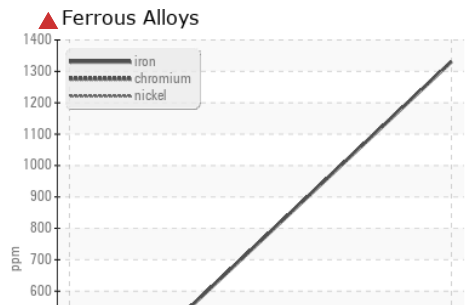
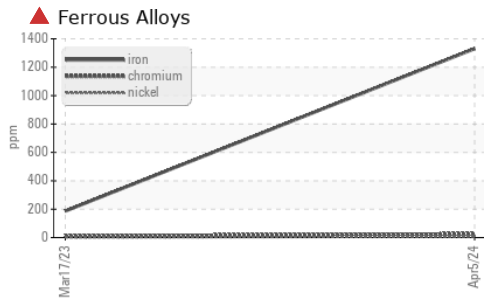
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 477	19	---
Potassium	ppm	ASTM D5185m	>20	54	20	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	MODER	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	>0.2	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal.

Sodium	ppm	ASTM D5185m		6	1	---
Boron	ppm	ASTM D5185m	6	65	41	---
Barium	ppm	ASTM D5185m	0	4	3	---
Molybdenum	ppm	ASTM D5185m	0	8	0	---
Manganese	ppm	ASTM D5185m		22	8	---
Magnesium	ppm	ASTM D5185m	145	91	2	---
Calcium	ppm	ASTM D5185m	3570	2390	27	---
Phosphorus	ppm	ASTM D5185m	1290	933	506	---
Zinc	ppm	ASTM D5185m	1640	913	87	---
Sulfur	ppm	ASTM D5185m		8234	17115	---
Visc @ 40°C	cSt	ASTM D445	57.0	▲ 78.0	181	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046329 **Received** : 11 Apr 2024
Lab Number : 06146112 **Tested** : 12 Apr 2024
Unique Number : 10976190 **Diagnosed** : 15 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)