



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area
Store 3 - Norton

Machine Id
JOHN DEERE 250G EX40 (S/N 1FF250GXTNF611948)

Component
Left Final Drive

Fluid
GEAR OIL SAE 90 (--- 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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049283	LEC0045581	---
Sample Date		Client Info		06 Jun 2024	11 Dec 2023	---
Machine Age	hrs	Client Info		2566	1961	---
Oil Age	hrs	Client Info		1000	500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	135	663	---
Iron	ppm	ASTM D5185m	>750	522	▲ 1195	---
Chromium	ppm	ASTM D5185m	>9	8	▲ 16	---
Nickel	ppm	ASTM D5185m	>10	1	2	---
Titanium	ppm	ASTM D5185m		3	9	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>40	● 58	● 150	---
Lead	ppm	ASTM D5185m	>15	0	0	---
Copper	ppm	ASTM D5185m	>40	<1	3	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

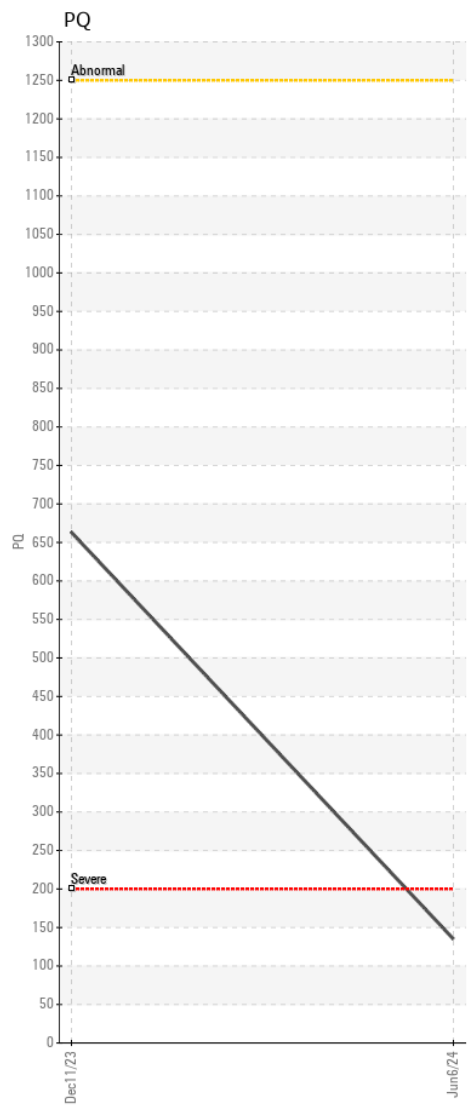
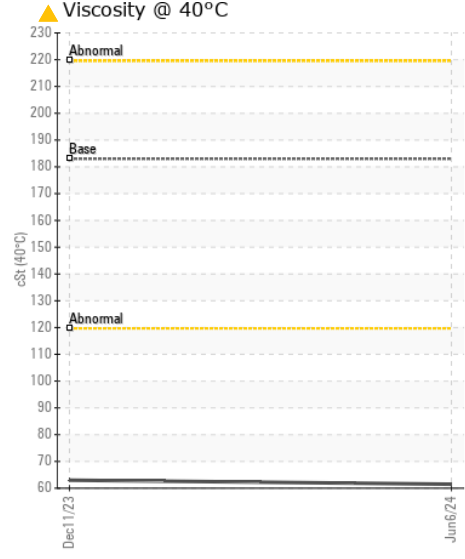
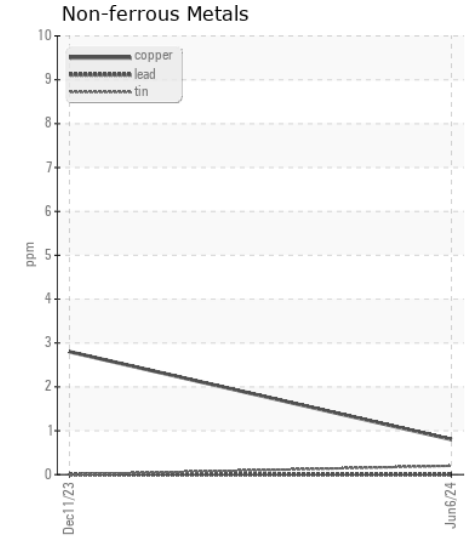
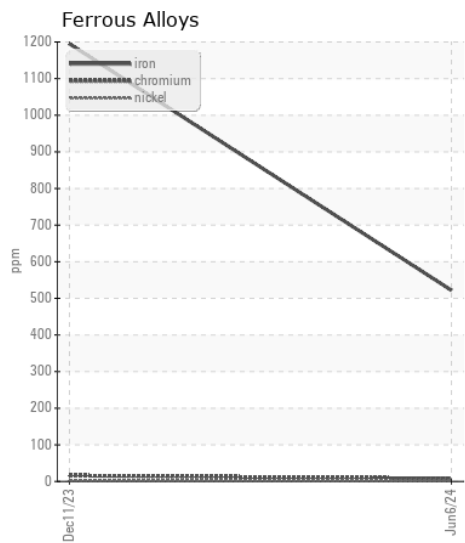
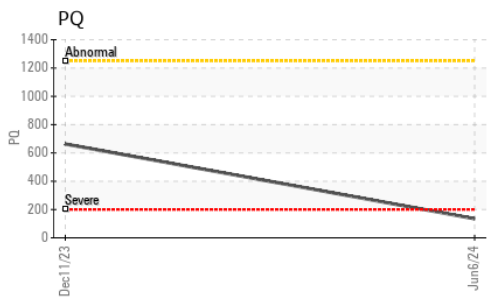
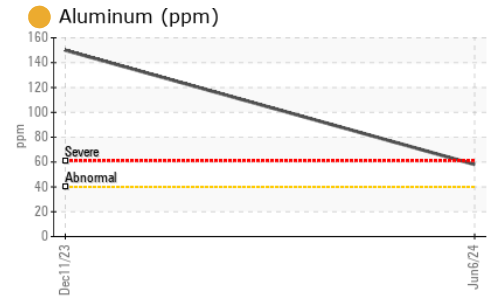
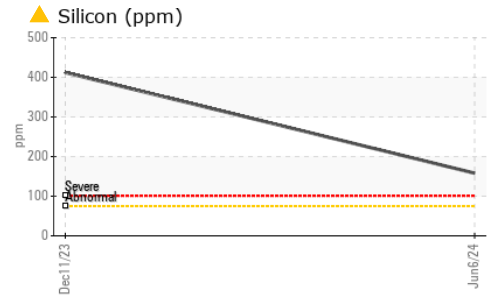
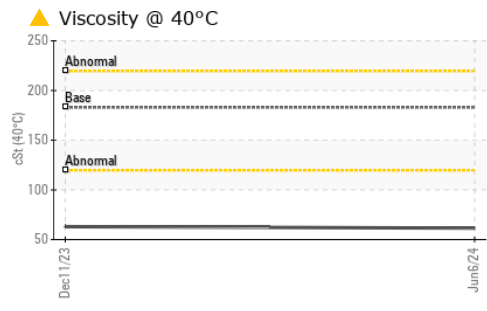
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 158	▲ 412	---
Potassium	ppm	ASTM D5185m	>20	15	36	---
Water		WC Method	>0.075	NEG	NEG	---
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	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m	>51	3	5	---
Boron	ppm	ASTM D5185m	400	32	31	---
Barium	ppm	ASTM D5185m	200	1	2	---
Molybdenum	ppm	ASTM D5185m	12	3	4	---
Manganese	ppm	ASTM D5185m		8	16	---
Magnesium	ppm	ASTM D5185m	12	97	101	---
Calcium	ppm	ASTM D5185m	150	2936	2730	---
Phosphorus	ppm	ASTM D5185m	1650	974	778	---
Zinc	ppm	ASTM D5185m	125	1026	963	---
Sulfur	ppm	ASTM D5185m	22500	6618	5505	---
Visc @ 40°C	cSt	ASTM D445	183	▲ 61.5	▲ 63.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049283 **Received** : 03 Jul 2024
Lab Number : 06227731 **Tested** : 05 Jul 2024
Unique Number : 11111224 **Diagnosed** : 06 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 US 26330
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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)