



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area **Store 9 - Marietta**

Machine Id **JOHN DEERE 250G EX39 (S/N 1FF250GXPNF611949)**

Component **Right Propel Gearbox**

Fluid **GEAR OIL SAE 90 (2 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		LEC0048947	LEC0047655	LEC0043825
Sample Date		Client Info		21 May 2024	15 Dec 2023	16 Aug 2023
Machine Age	hrs	Client Info		2973	2457	1906
Oil Age	hrs	Client Info		500	1000	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Changed	Changed	None
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184		481	946	616
Iron	ppm	ASTM D5185m	>1250	▲ 1187	1551	829
Chromium	ppm	ASTM D5185m	>10	▲ 10	15	8
Nickel	ppm	ASTM D5185m	>10	1	1	1
Titanium	ppm	ASTM D5185m		9	8	5
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		● 126	● 108	● 79
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		1	2	1
Tin	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

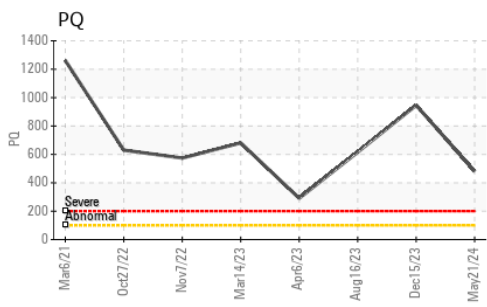
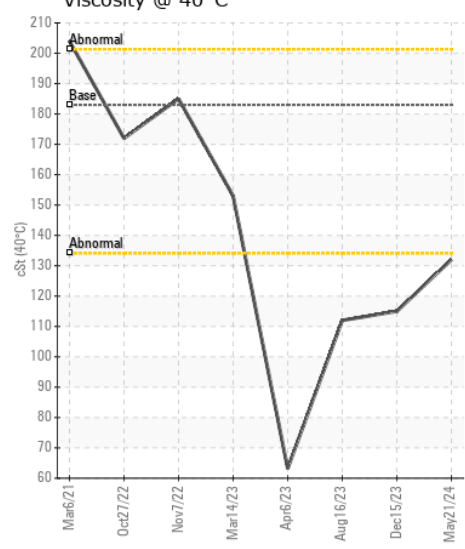
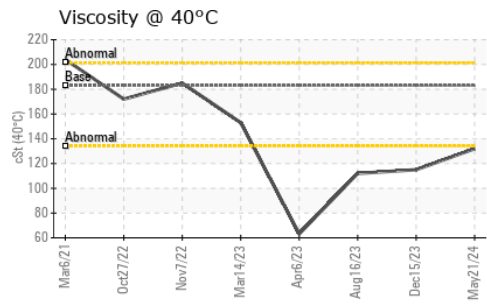
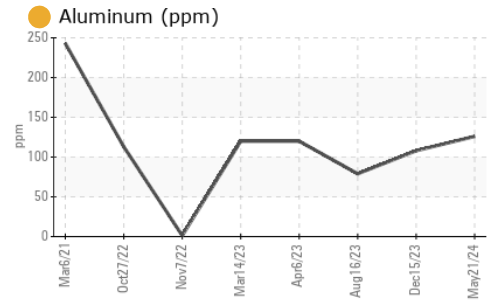
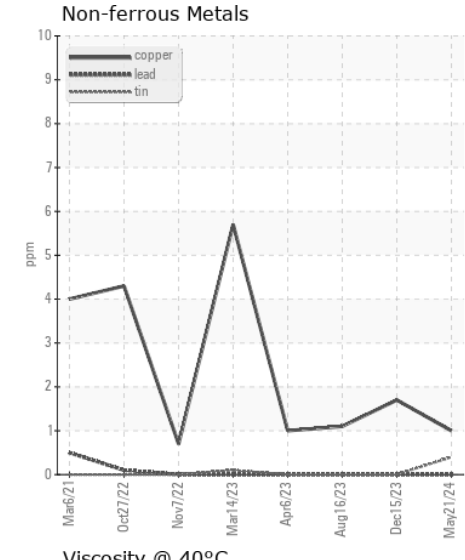
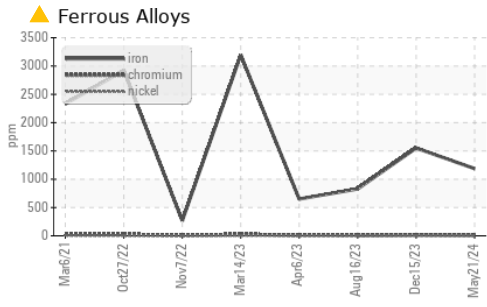
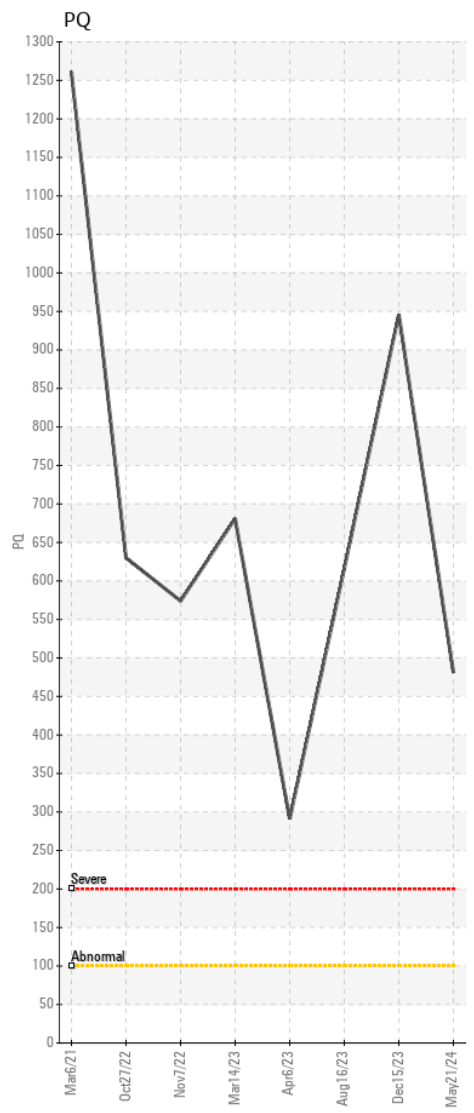
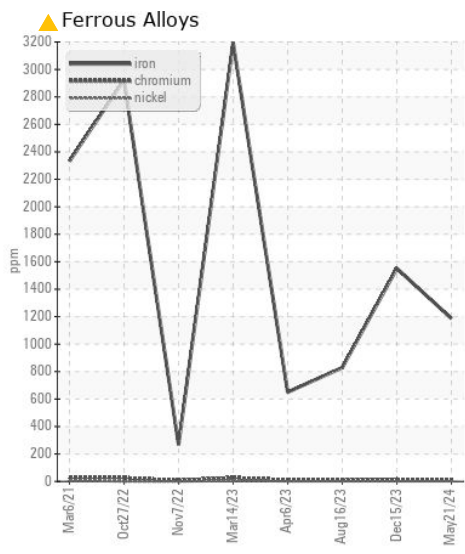
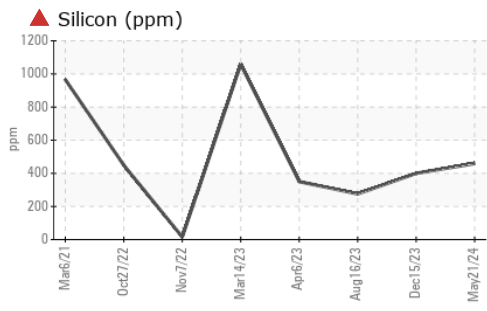
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 459	▲ 400	▲ 276
Potassium	ppm	ASTM D5185m	>20	32	29	21
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		6	0	4
Boron	ppm	ASTM D5185m	400	112	145	126
Barium	ppm	ASTM D5185m	200	<1	2	0
Molybdenum	ppm	ASTM D5185m	12	4	2	1
Manganese	ppm	ASTM D5185m		11	14	9
Magnesium	ppm	ASTM D5185m	12	18	36	27
Calcium	ppm	ASTM D5185m	150	212	757	691
Phosphorus	ppm	ASTM D5185m	1650	932	1034	883
Zinc	ppm	ASTM D5185m	125	70	309	290
Sulfur	ppm	ASTM D5185m	22500	21330	16326	16718
Visc @ 40°C	cSt	ASTM D445	183	132	115	112



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048947 **Received** : 31 May 2024
Lab Number : 06197004 **Tested** : 03 Jun 2024
Unique Number : 11059127 **Diagnosed** : 04 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)