



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 250G EX25 (S/N 1FF250GXTKF611136)

Component
Left Propel Gearbox
 Fluid
GEAR OIL SAE 90 (2 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter 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		LEC0048963	LEC0042557	LEC0001458
Sample Date		Client Info		24 May 2024	08 Jul 2023	08 Aug 2019
Machine Age	hrs	Client Info		4739	3090	553
Oil Age	hrs	Client Info		1000	3090	553
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	None	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated.

PQ	ASTM D8184	Current	History1	History2	
Iron	ppm	ASTM D5185m >1250	▲ 2959	▲ 1895	446
Chromium	ppm	ASTM D5185m >10	▲ 21	▲ 14	8
Nickel	ppm	ASTM D5185m >10	3	3	<1
Titanium	ppm	ASTM D5185m	8	7	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	● 130	● 97	1
Lead	ppm	ASTM D5185m	0	0	0
Copper	ppm	ASTM D5185m	5	3	<1
Tin	ppm	ASTM D5185m	<1	0	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE

CONTAMINATION

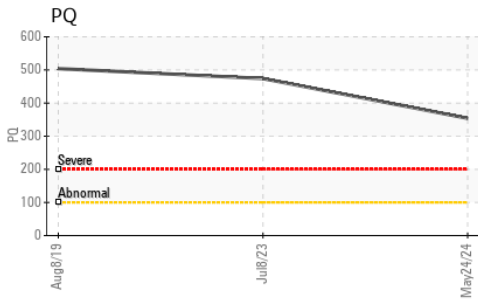
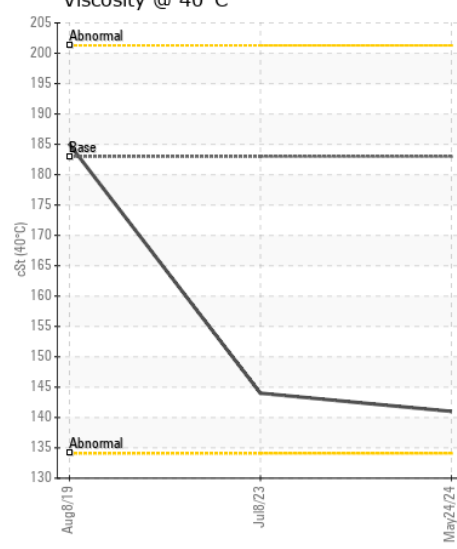
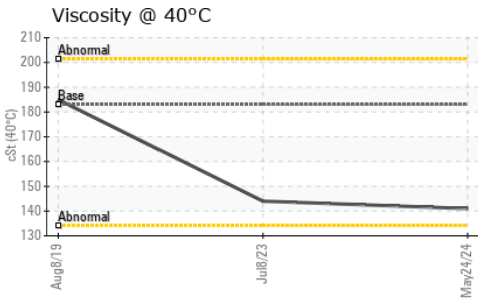
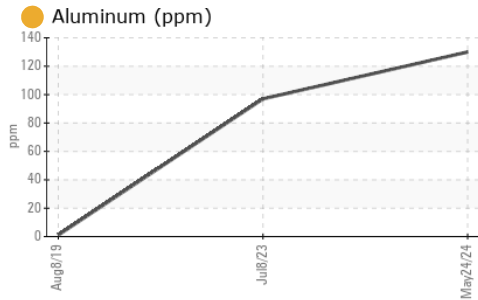
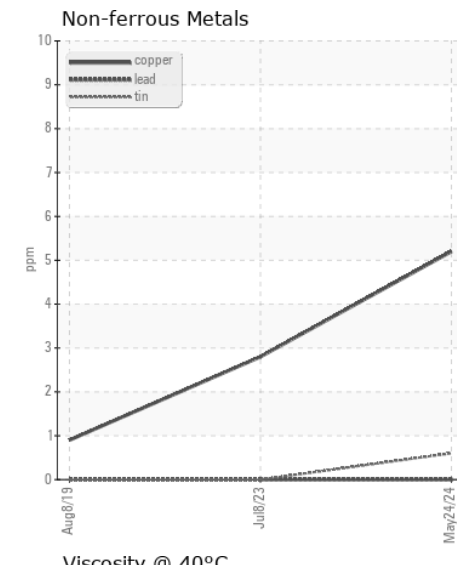
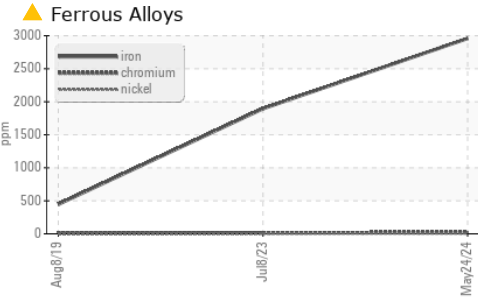
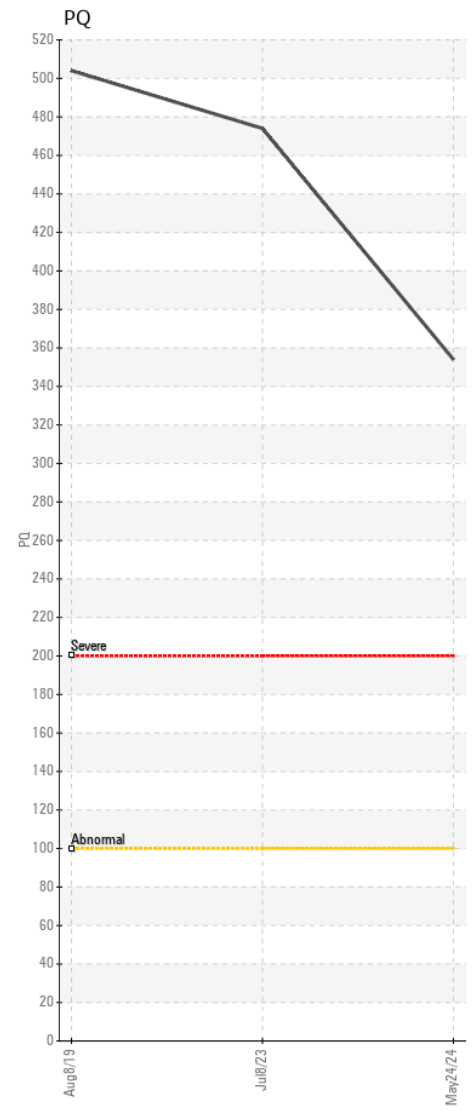
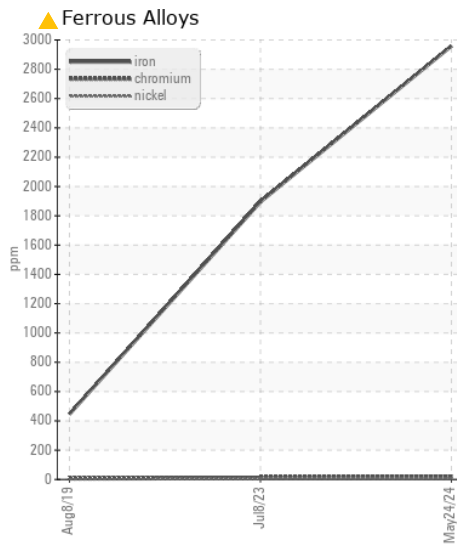
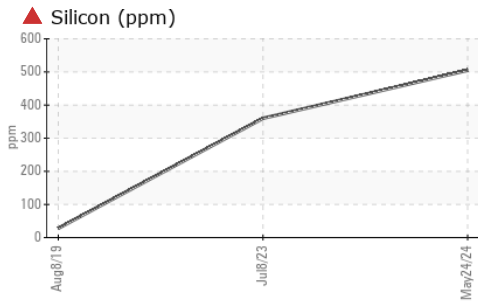
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	▲ 505	▲ 360	28
Potassium	ppm	ASTM D5185m >20	30	24	0
Water		WC Method >0.2	NEG	NEG	NEG
Silt	scalar	*Visual NONE	NONE	NONE	▲ MODER
Debris	scalar	*Visual NONE	NONE	NONE	LIGHT
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	7	4	2
Boron	ppm	ASTM D5185m 400	44	25	49
Barium	ppm	ASTM D5185m 200	2	<1	7
Molybdenum	ppm	ASTM D5185m 12	8	0	0
Manganese	ppm	ASTM D5185m	20	13	7
Magnesium	ppm	ASTM D5185m 12	15	12	0
Calcium	ppm	ASTM D5185m 150	198	46	9
Phosphorus	ppm	ASTM D5185m 1650	517	399	464
Zinc	ppm	ASTM D5185m 125	54	19	25
Sulfur	ppm	ASTM D5185m 22500	22001	20806	13033
Visc @ 40°C	cSt	ASTM D445 183	141	144	185



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048963 **Received** : 31 May 2024
Lab Number : 06197012 **Tested** : 04 Jun 2024
Unique Number : 11059135 **Diagnosed** : 04 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
 Contact: JESSE WILBURN
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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)