



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL



Area
{unassigned}
Machine Id
JOHN DEERE 250GLC 1FF250GXCLF611600
Component
Right Propel Gearbox
Fluid
JOHN DEERE HY-GARD HYD/TRANS (2 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		LEC0037941	LEC0032719	LEC0030073
Sample Date		Client Info		19 Jan 2023	03 Aug 2022	25 Apr 2022
Machine Age	hrs	Client Info		2336	1806	1282
Oil Age	hrs	Client Info		530	524	537
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		None	None	None
Sample Status				ABNORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

PQ		ASTM D8184		255	596	855
Iron	ppm	ASTM D5185m	>1250	435	658	274
Chromium	ppm	ASTM D5185m	>10	4	7	4
Nickel	ppm	ASTM D5185m	>10	1	<1	<1
Titanium	ppm	ASTM D5185m		3	4	5
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m		▲ 52	▲ 56	▲ 91
Lead	ppm	ASTM D5185m		<1	<1	<1
Copper	ppm	ASTM D5185m		1	2	1
Tin	ppm	ASTM D5185m		<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

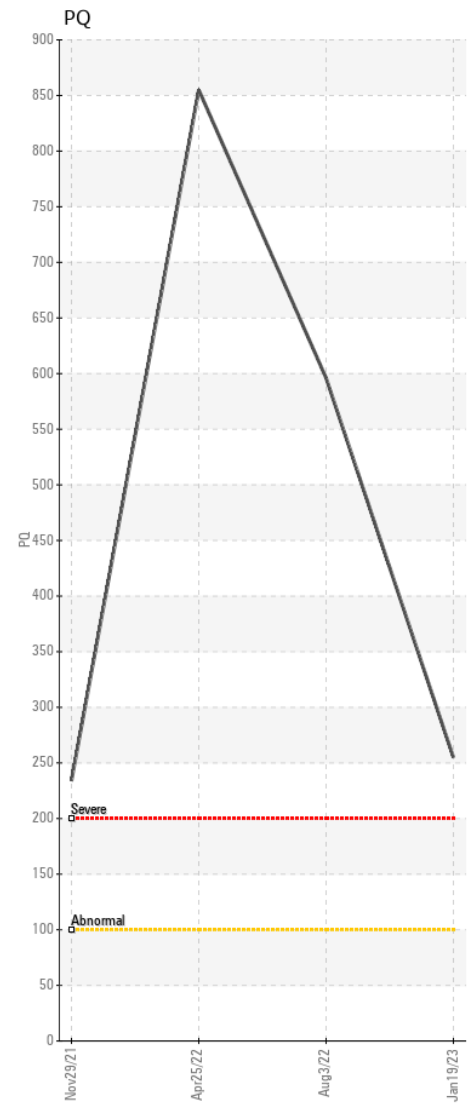
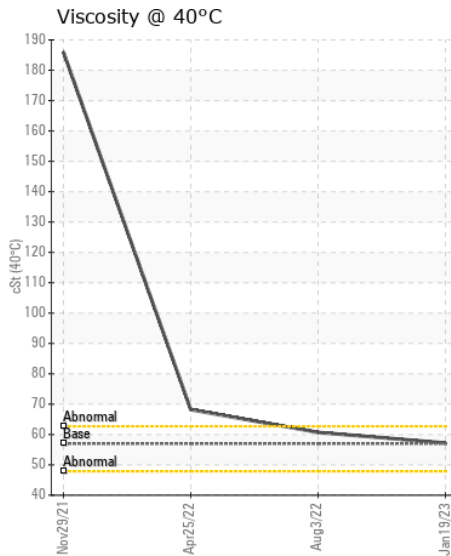
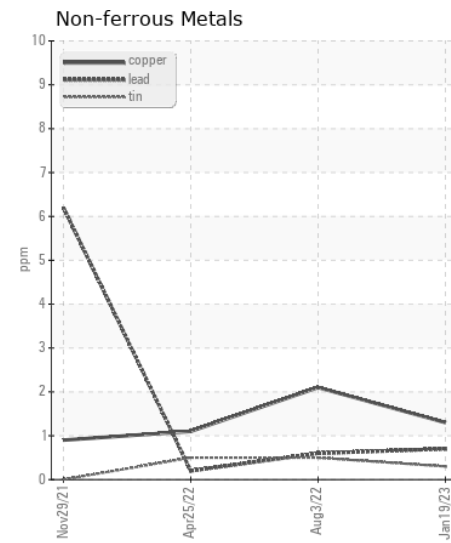
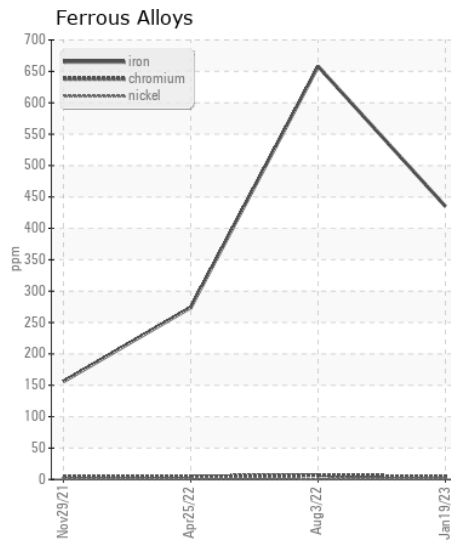
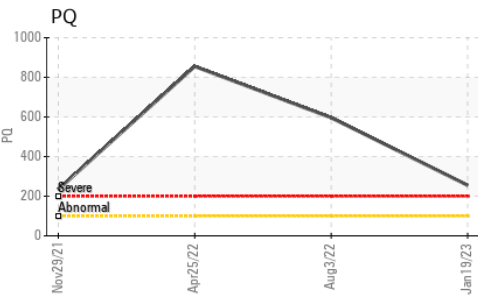
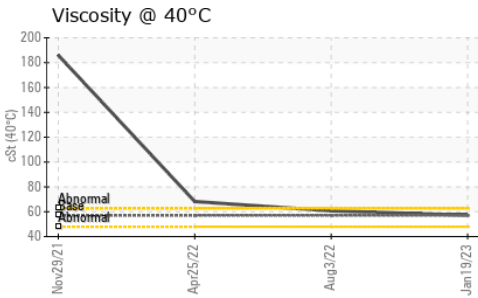
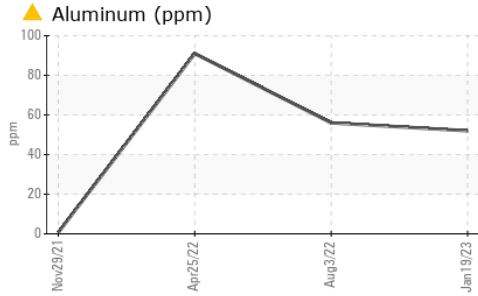
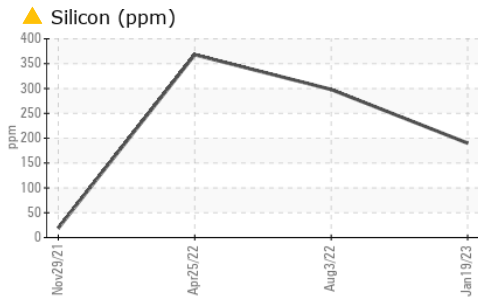
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 190	● 298	● 368
Potassium	ppm	ASTM D5185m	>20	12	14	23
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	4	6
Boron	ppm	ASTM D5185m	6	7	14	16
Barium	ppm	ASTM D5185m	0	11	0	0
Molybdenum	ppm	ASTM D5185m	0	4	3	3
Manganese	ppm	ASTM D5185m		4	7	6
Magnesium	ppm	ASTM D5185m	145	112	109	90
Calcium	ppm	ASTM D5185m	3570	3359	3282	2912
Phosphorus	ppm	ASTM D5185m	1290	976	977	940
Zinc	ppm	ASTM D5185m	1640	1226	1157	999
Sulfur	ppm	ASTM D5185m		4000	4336	4759
Visc @ 40°C	cSt	ASTM D445	57.0	57.2	60.7	68.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0037941 **Received** : 24 Jan 2023
Lab Number : 05748288 **Tested** : 25 Jan 2023
Unique Number : 10307892 **Diagnosed** : 25 Jan 2023 - Don Baldrige
Test Package : CONST (Additional Tests: 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)