



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
ATTENTION



Area
Store 4 - Fairmont [151139]
Machine Id
JOHN DEERE 210G 1FF210GXVNF529768
Component
Left Propel Gearbox
Fluid
JOHN DEERE GL-5 80W90 (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		LEC0045146	LEC0043565	LEC0041674
Sample Date		Client Info		20 May 2024	07 Nov 2023	26 May 2023
Machine Age	hrs	Client Info		2636	1998	1467
Oil Age	hrs	Client Info		638	531	482
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	None
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		384	355	373
Iron	ppm	ASTM D5185m	>1250	590	540	524
Chromium	ppm	ASTM D5185m	>10	6	6	6
Nickel	ppm	ASTM D5185m	>10	1	<1	0
Titanium	ppm	ASTM D5185m		4	2	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		59	32	42
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		0	2	0
Tin	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

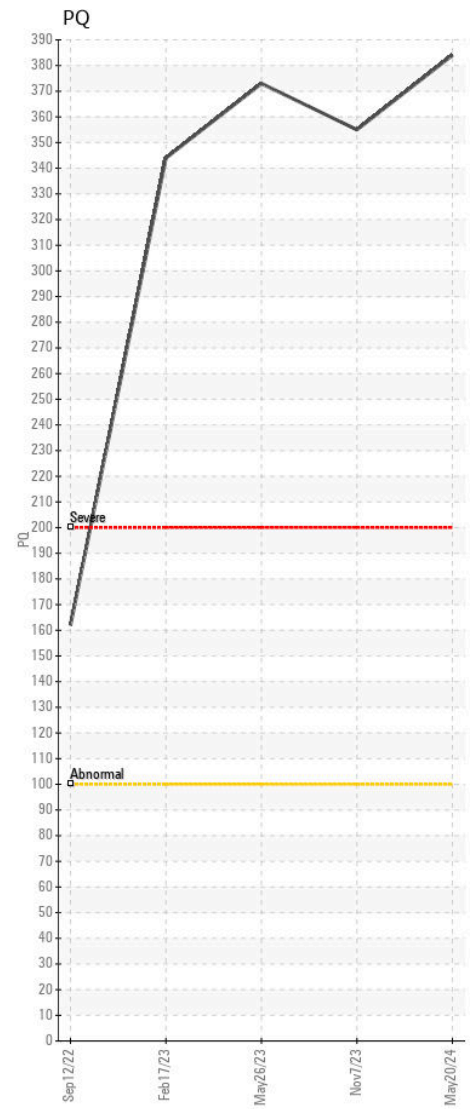
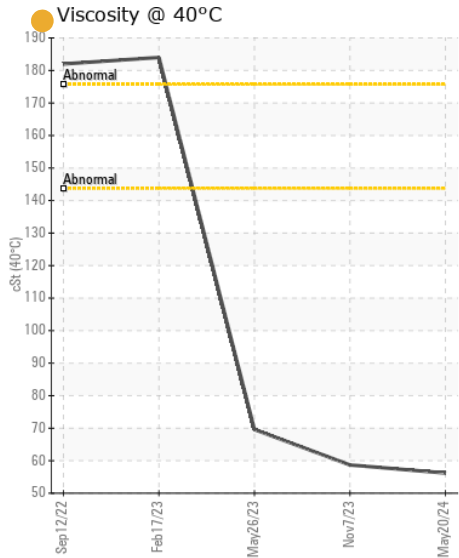
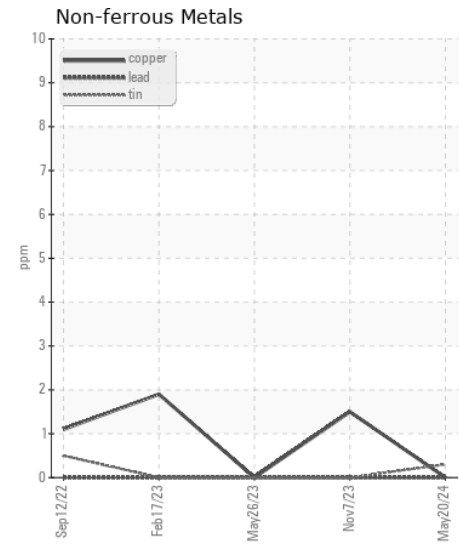
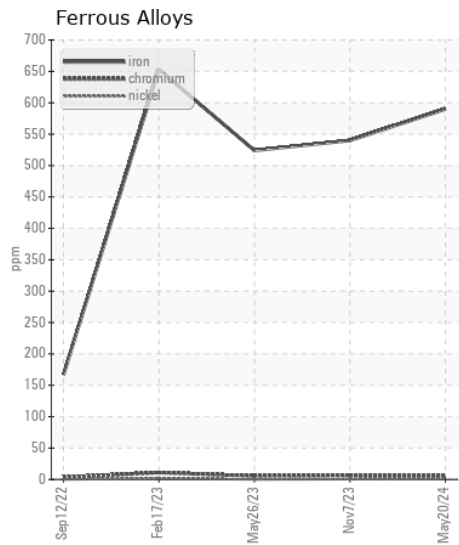
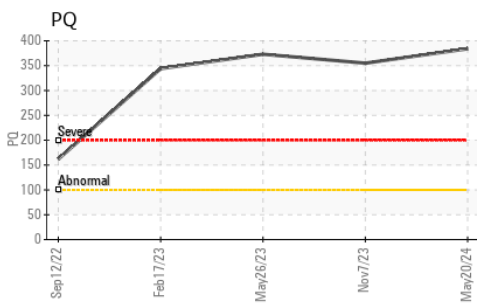
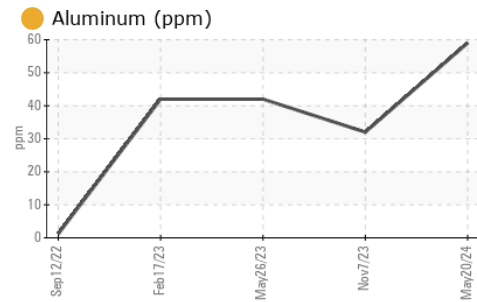
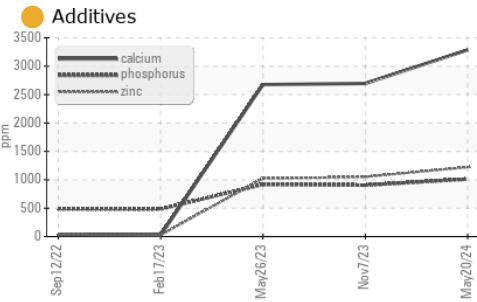
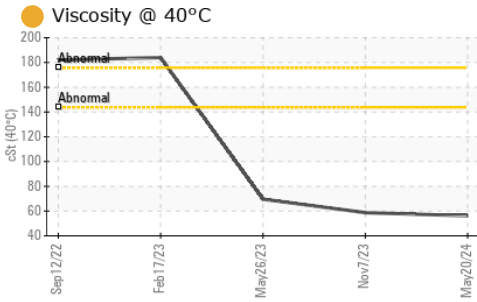
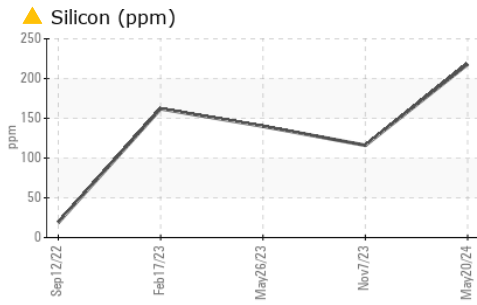
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		218	116	140
Potassium	ppm	ASTM D5185m	>20	13	8	11
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	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 viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		1	2	1
Boron	ppm	ASTM D5185m		10	21	36
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		6	4	7
Manganese	ppm	ASTM D5185m		6	6	6
Magnesium	ppm	ASTM D5185m		115	104	114
Calcium	ppm	ASTM D5185m		3287	2697	2675
Phosphorus	ppm	ASTM D5185m		1013	905	918
Zinc	ppm	ASTM D5185m		1222	1051	1021
Sulfur	ppm	ASTM D5185m		4070	3779	7029
Visc @ 40°C	cSt	ASTM D445		56.2	58.7	69.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0045146
Lab Number : 06187975
Unique Number : 11044727
Test Package : CONST (Additional Tests: PQ)

Received : 22 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Sean Felton

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com

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)

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