



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL



Area
Store 9 - Marietta
Machine Id
JOHN DEERE 210G 1FF210GXTNF530413
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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049040	LEC0043830	LEC0038372
Sample Date		Client Info		21 May 2024	15 Aug 2023	12 May 2023
Machine Age	hrs	Client Info		1964	1184	723
Oil Age	hrs	Client Info		500	661	233
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Changed	None	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		378	261	203
Iron	ppm	ASTM D5185m	>1250	823	264	354
Chromium	ppm	ASTM D5185m	>10	7	2	5
Nickel	ppm	ASTM D5185m	>10	1	0	<1
Titanium	ppm	ASTM D5185m		4	<1	2
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		52	8	35
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

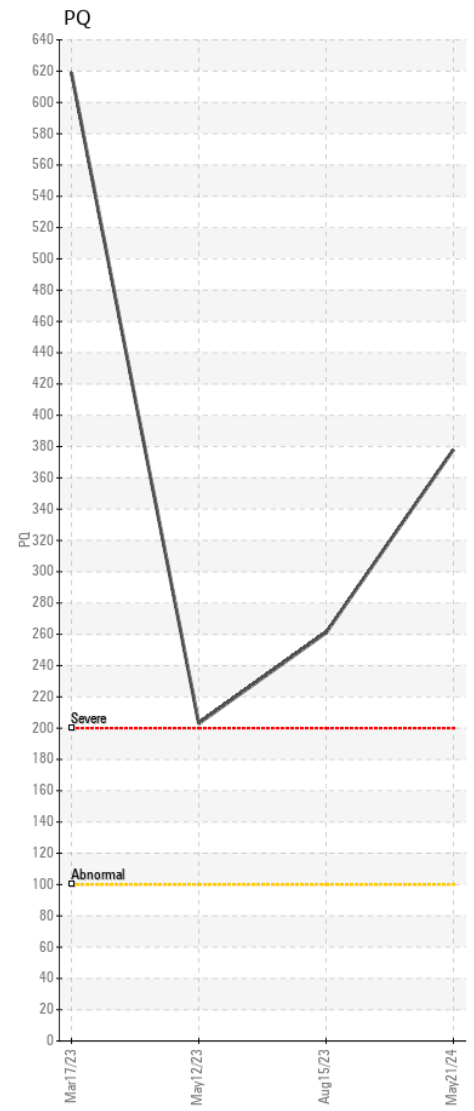
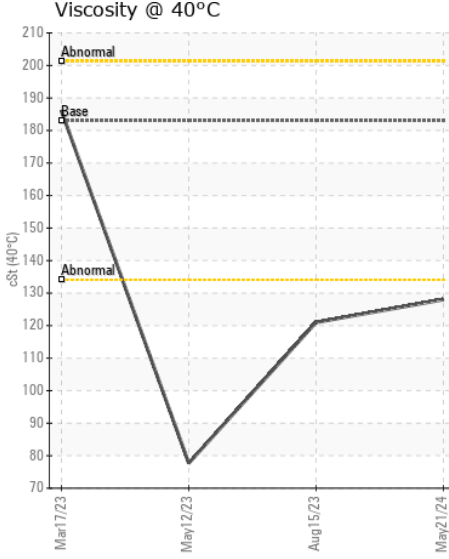
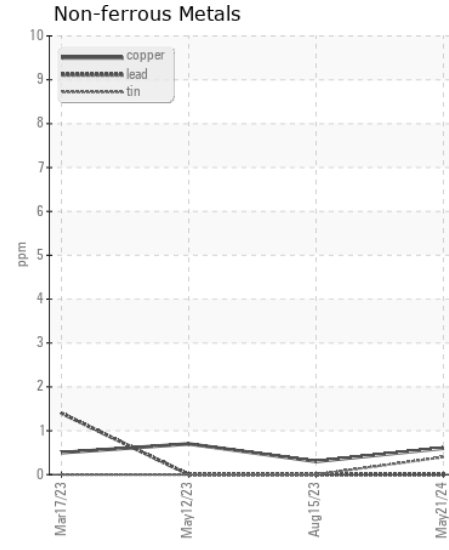
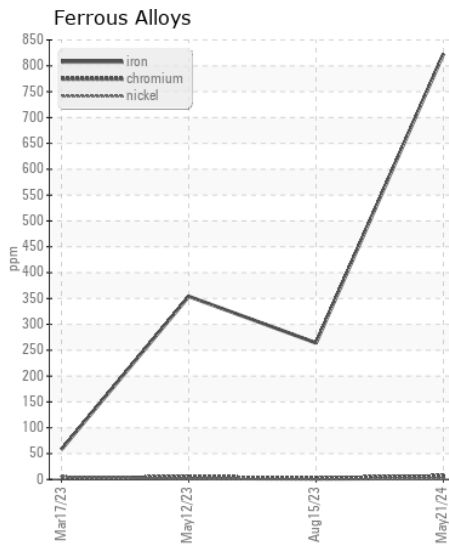
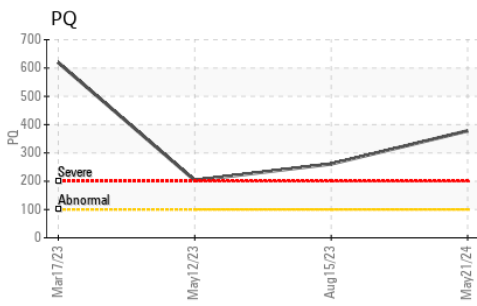
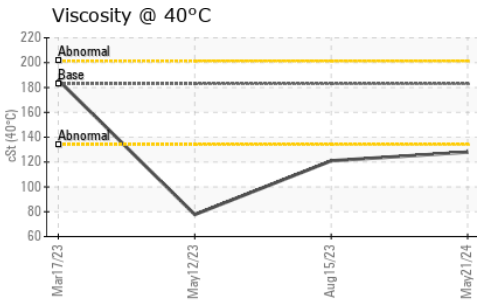
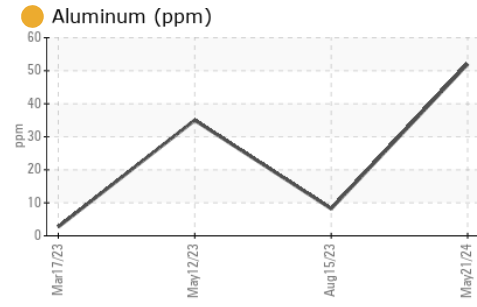
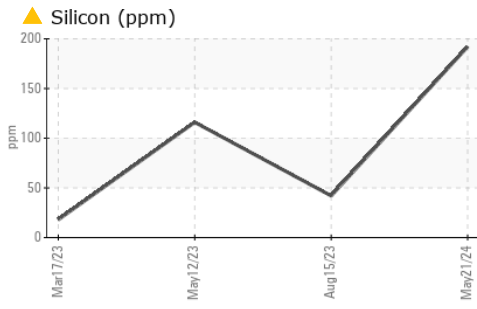
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		192	42	116
Potassium	ppm	ASTM D5185m	>20	15	3	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	1	0
Boron	ppm	ASTM D5185m	400	137	95	43
Barium	ppm	ASTM D5185m	200	0	0	2
Molybdenum	ppm	ASTM D5185m	12	4	<1	2
Manganese	ppm	ASTM D5185m		8	3	6
Magnesium	ppm	ASTM D5185m	12	14	11	78
Calcium	ppm	ASTM D5185m	150	250	355	2608
Phosphorus	ppm	ASTM D5185m	1650	1071	820	887
Zinc	ppm	ASTM D5185m	125	119	199	899
Sulfur	ppm	ASTM D5185m	22500	20570	18050	7190
Visc @ 40°C	cSt	ASTM D445	183	128	121	77.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049040 **Received** : 31 May 2024
Lab Number : 06197029 **Tested** : 03 Jun 2024
Unique Number : 11059152 **Diagnosed** : 04 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
 Contact: JESSE WILBURN
 jessewilburn@gmail.com
 T: (740)440-0927
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Certificate L2367
 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)