



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
 Machine Id
JOHN DEERE 250G EX33 (S/N 1FF250GXHLF611604)
 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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047718	LEC0038357	LEC0036096
Sample Date		Client Info		05 Jan 2024	19 Apr 2023	12 Oct 2022
Machine Age	hrs	Client Info		1640	1082	545
Oil Age	hrs	Client Info		500	1082	545
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	None
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		347	269	133
Iron	ppm	ASTM D5185m	>1250	508	420	420
Chromium	ppm	ASTM D5185m	>10	6	6	7
Nickel	ppm	ASTM D5185m	>10	<1	1	0
Titanium	ppm	ASTM D5185m		2	3	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		▲ 25	▲ 82	2
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		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

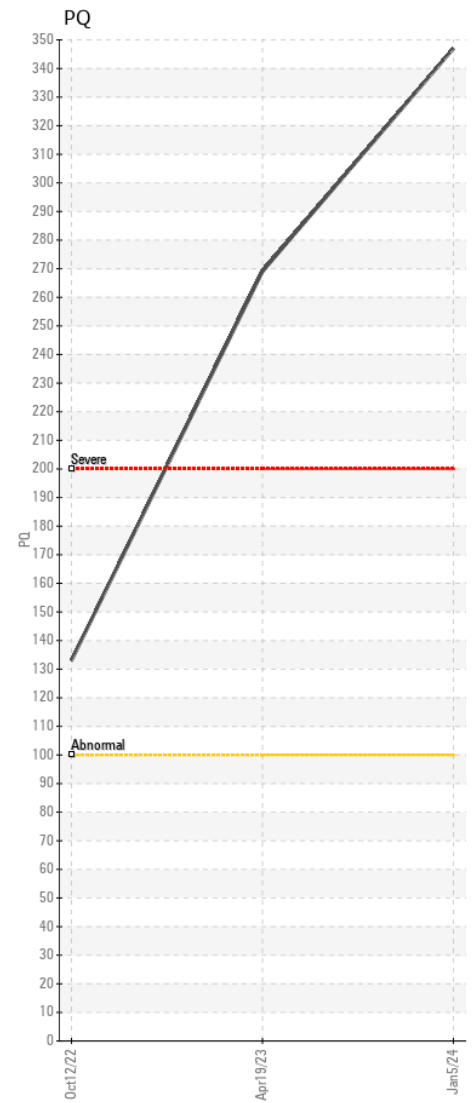
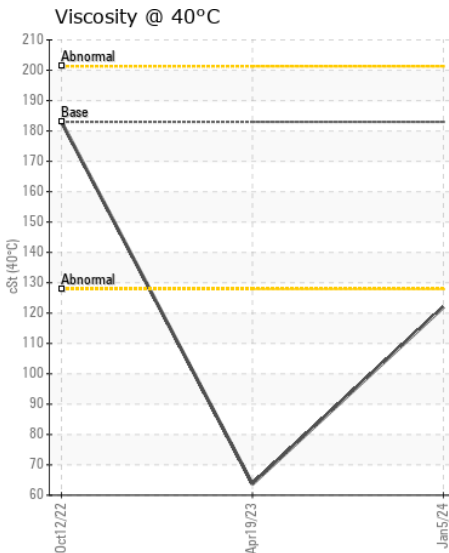
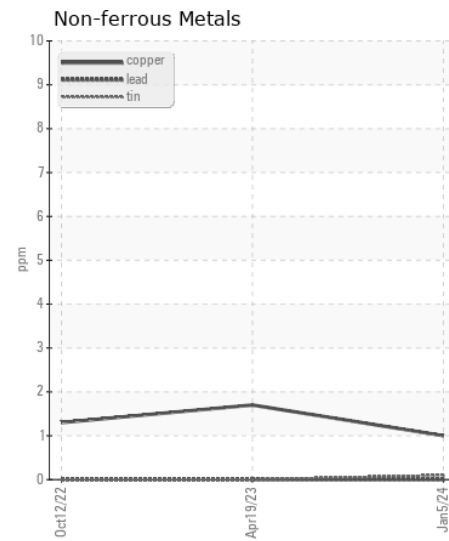
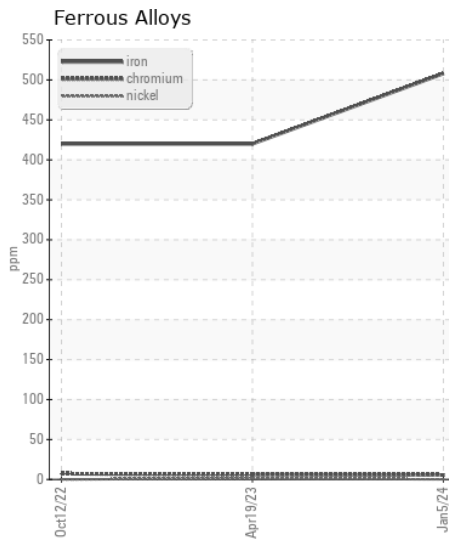
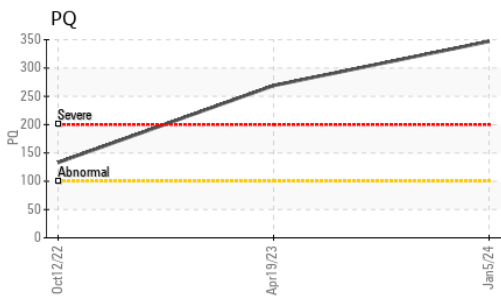
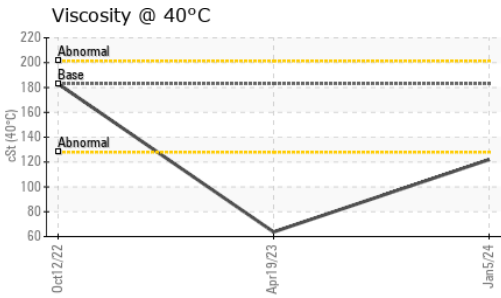
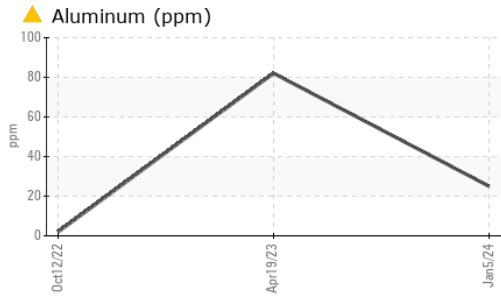
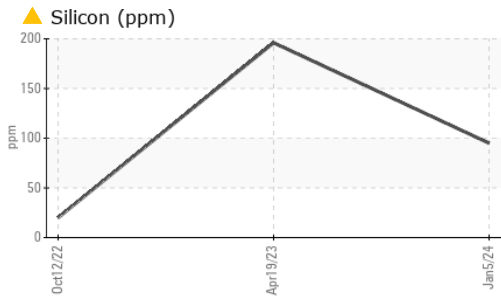
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 95	▲ 196	20
Potassium	ppm	ASTM D5185m	>20	6	18	<1
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		1	2	0
Boron	ppm	ASTM D5185m	400	139	36	46
Barium	ppm	ASTM D5185m	200	0	0	8
Molybdenum	ppm	ASTM D5185m	12	<1	4	<1
Manganese	ppm	ASTM D5185m		5	7	12
Magnesium	ppm	ASTM D5185m	12	20	92	2
Calcium	ppm	ASTM D5185m	150	555	2855	8
Phosphorus	ppm	ASTM D5185m	1650	1009	928	494
Zinc	ppm	ASTM D5185m	125	222	1028	33
Sulfur	ppm	ASTM D5185m	22500	16534	5647	16793
Visc @ 40°C	cSt	ASTM D445	183	122	▲ 63.7	183



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047718 **Received** : 17 Jan 2024
Lab Number : 06063871 **Diagnosed** : 20 Jan 2024
Unique Number : 10835253 **Diagnostician** : Don Baldrige
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)