



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area
Store 5 - Cross Lanes
Machine Id
JOHN DEERE 210G EX46 (S/N 1FF210GXCJF526281)
Component
Swing Drive
Fluid
GEAR OIL SAE 90 (2 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049304	LEC0045445	LEC0042553
Sample Date		Client Info		10 Jun 2024	02 Nov 2023	06 Jul 2023
Machine Age	hrs	Client Info		4122	3570	3090
Oil Age	hrs	Client Info		500	980	3090
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				ATTENTION	SEVERE	SEVERE

WEAR

All component wear rates are normal.

PQ		ASTM D8184		26	1780	1137
Iron	ppm	ASTM D5185m	>151	84	▲ 6649	▲ 4288
Chromium	ppm	ASTM D5185m	>11	<1	▲ 71	▲ 47
Nickel	ppm	ASTM D5185m	>10	0	8	2
Titanium	ppm	ASTM D5185m		<1	40	39
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	2	● 854	● 697
Lead	ppm	ASTM D5185m	>51	0	<1	0
Copper	ppm	ASTM D5185m	>51	0	11	6
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

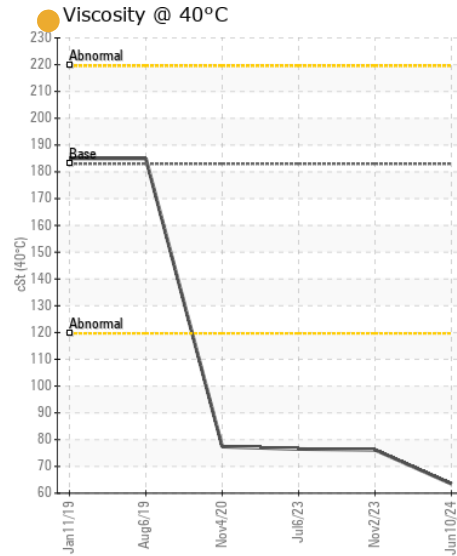
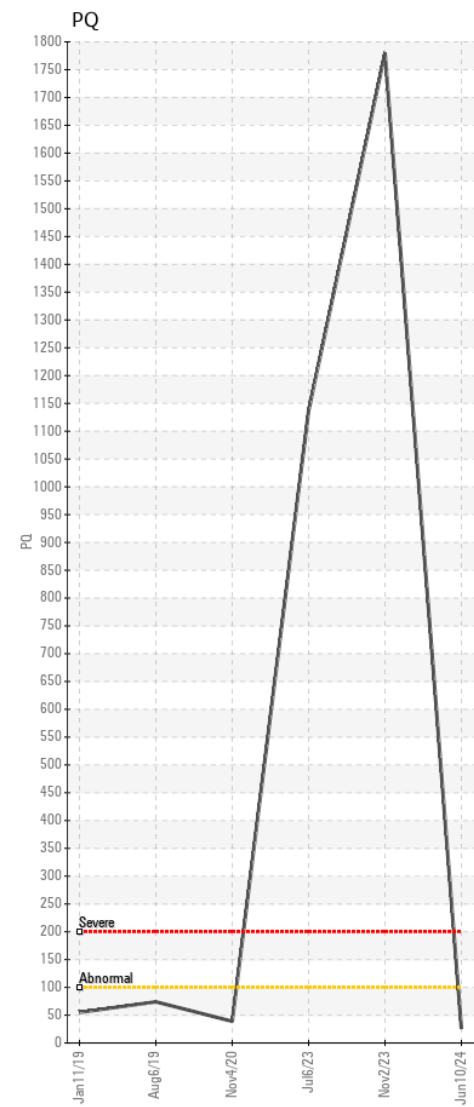
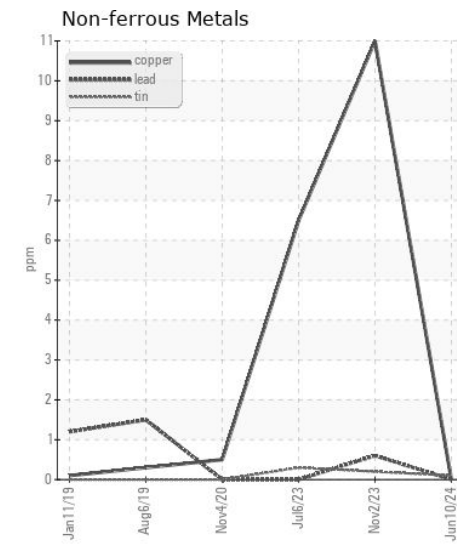
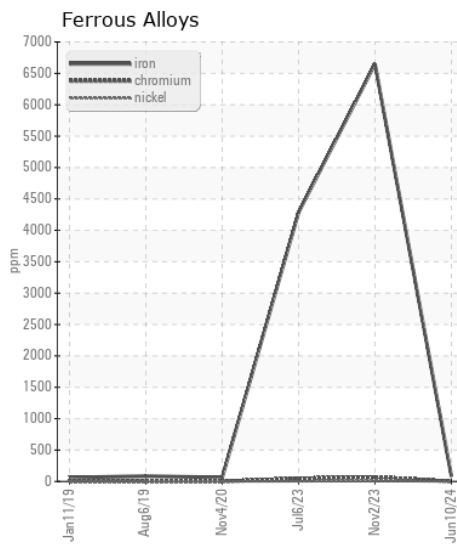
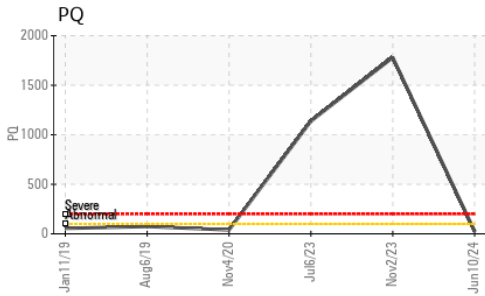
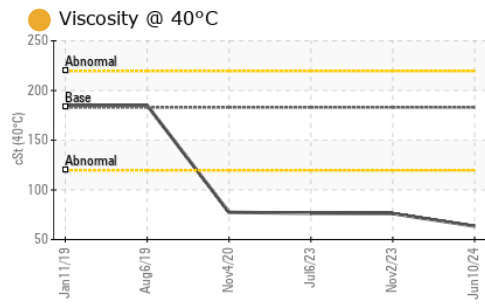
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	18	▲ 1811	▲ 1702
Potassium	ppm	ASTM D5185m	>20	<1	198	191
Water		WC Method	>0.1	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	>0.1	NEG	▲ 0.2%	NEG

FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m	>51	2	24	22
Boron	ppm	ASTM D5185m	400	35	289	290
Barium	ppm	ASTM D5185m	200	0	5	6
Molybdenum	ppm	ASTM D5185m	12	13	251	258
Manganese	ppm	ASTM D5185m		1	61	42
Magnesium	ppm	ASTM D5185m	12	143	818	883
Calcium	ppm	ASTM D5185m	150	3070	1789	1977
Phosphorus	ppm	ASTM D5185m	1650	1065	783	932
Zinc	ppm	ASTM D5185m	125	1140	920	981
Sulfur	ppm	ASTM D5185m	22500	6952	3056	4015
Visc @ 40°C	cSt	ASTM D445	183	● 63.5	76.2	76.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049304 **Received** : 03 Jul 2024
Lab Number : 06227721 **Tested** : 05 Jul 2024
Unique Number : 11111214 **Diagnosed** : 06 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
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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)