



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ATTENTION



Area

Store 5 - Cross Lanes

Machine Id

JOHN DEERE 210G EX46 (S/N 1FF210GXCJF526281)

Component

Left Final Drive

Fluid

GEAR OIL SAE 90 (2 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

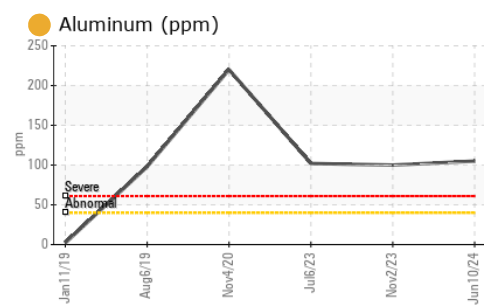
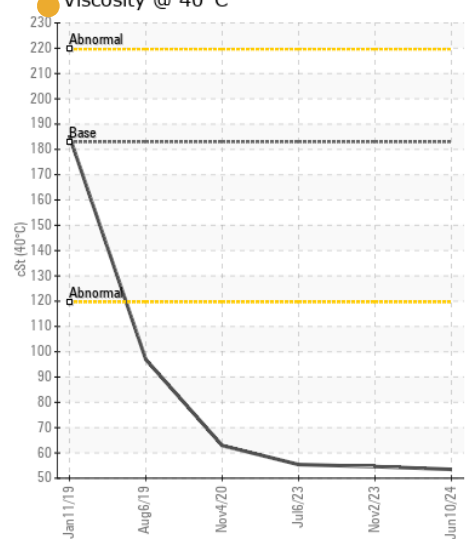
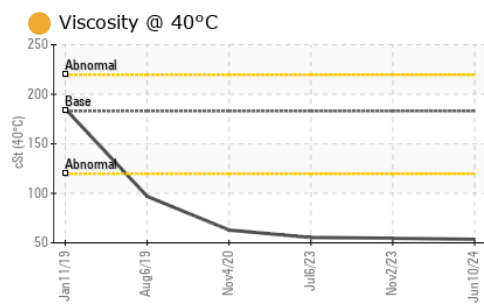
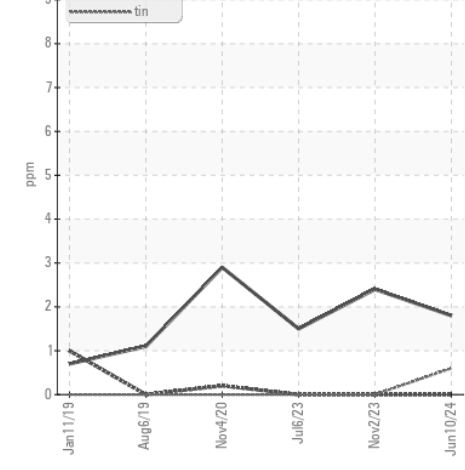
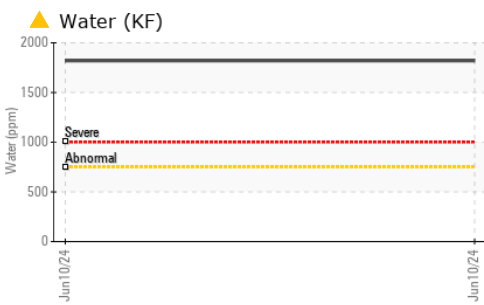
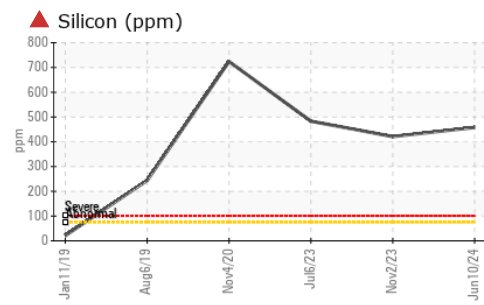
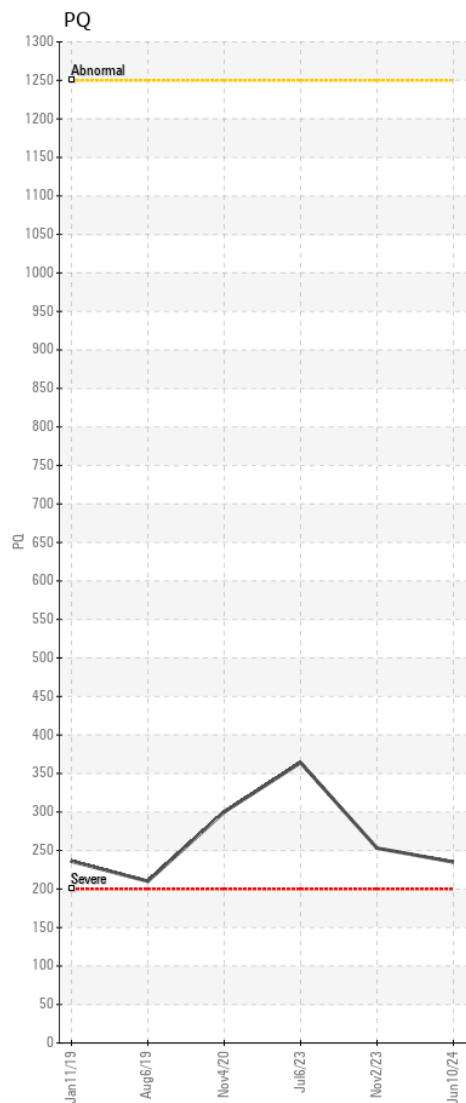
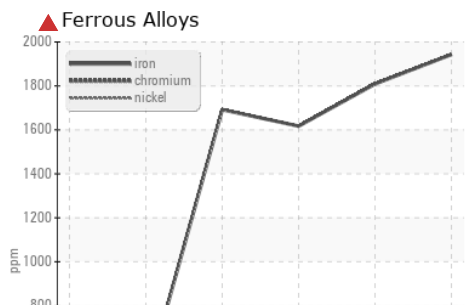
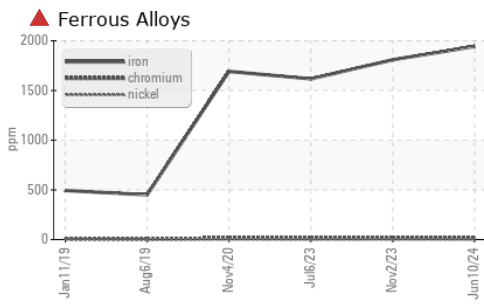
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

FLUID CONDITION

The oil viscosity is lower than normal. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049306	LEC0045447	LEC0041791
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	2225
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		Changed	Changed	None
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	235	253	364
Iron	ppm	ASTM D5185m	>750	▲ 1943	▲ 1809	▲ 1617
Chromium	ppm	ASTM D5185m	>9	▲ 15	▲ 14	▲ 13
Nickel	ppm	ASTM D5185m	>10	1	2	1
Titanium	ppm	ASTM D5185m		8	8	9
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 105	● 100	● 102
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	2	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 458	▲ 421	▲ 483
Potassium	ppm	ASTM D5185m	>20	30	26	31
Water	%	ASTM D6304	>0.075	▲ 0.182	---	---
ppm Water	ppm	ASTM D6304	>750	▲ 1820	---	---
Silt	scalar	*Visual	NONE	MODER	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	>0.075	▲ 0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	7	6	8
Boron	ppm	ASTM D5185m	400	29	31	30
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	21	22	21
Manganese	ppm	ASTM D5185m		17	16	14
Magnesium	ppm	ASTM D5185m	12	184	176	188
Calcium	ppm	ASTM D5185m	150	3393	3178	3500
Phosphorus	ppm	ASTM D5185m	1650	1078	889	1049
Zinc	ppm	ASTM D5185m	125	1238	1161	1243
Sulfur	ppm	ASTM D5185m	22500	4268	3699	4850
Visc @ 40°C	cSt	ASTM D445	183	● 53.5	● 54.6	55.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049306
Lab Number : 06227709
Unique Number : 11111202
Test Package : CONST (Additional Tests: KF, PQ)

LANE PIPELINE
 2946 E MAIN ST
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 US 26330
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 T: (740)440-0927
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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)