



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Store 9 - Marietta

Machine Id
JOHN DEERE 350G EX7 (S/N JF812434)

Component
Left Final Drive

Fluid
GEAR OIL SAE 90 (--- 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.

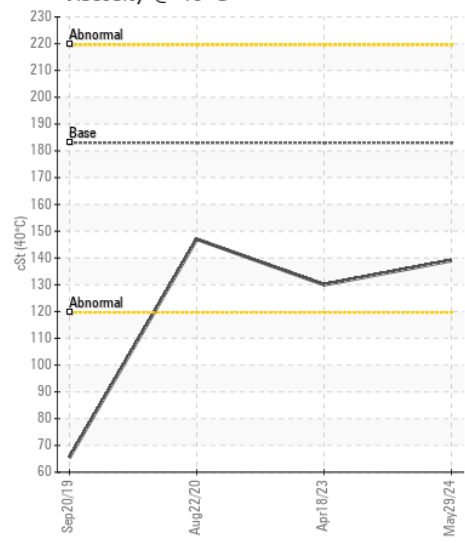
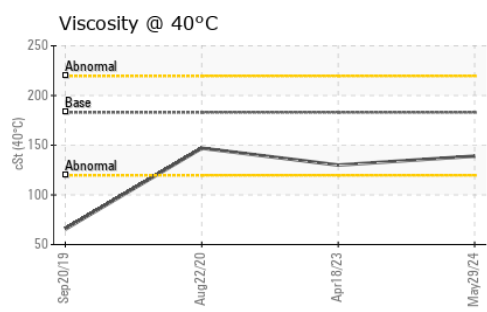
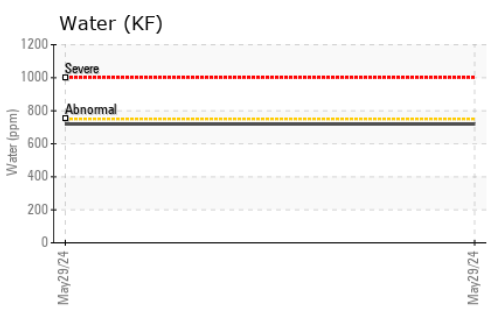
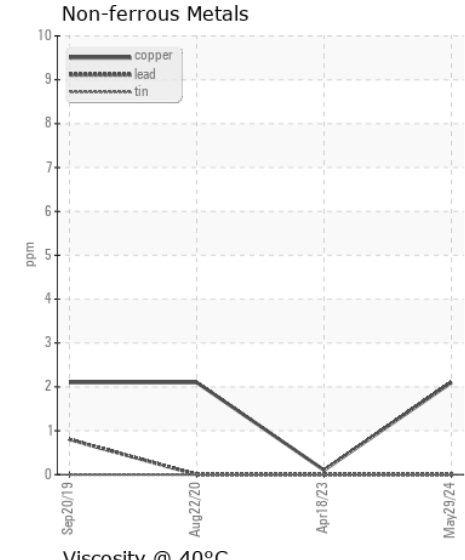
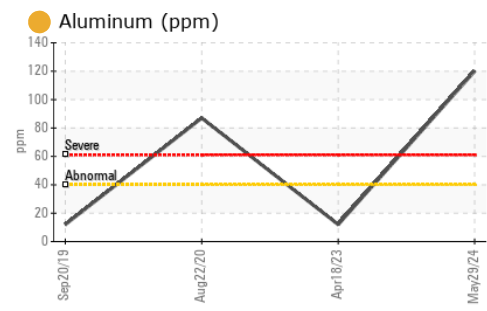
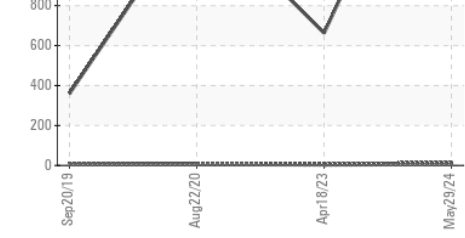
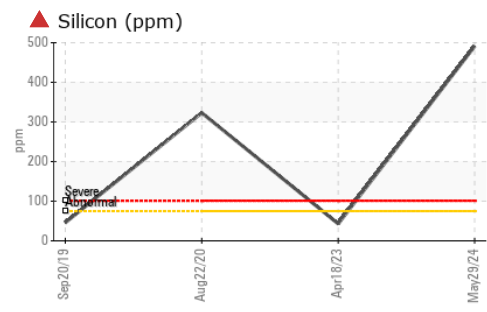
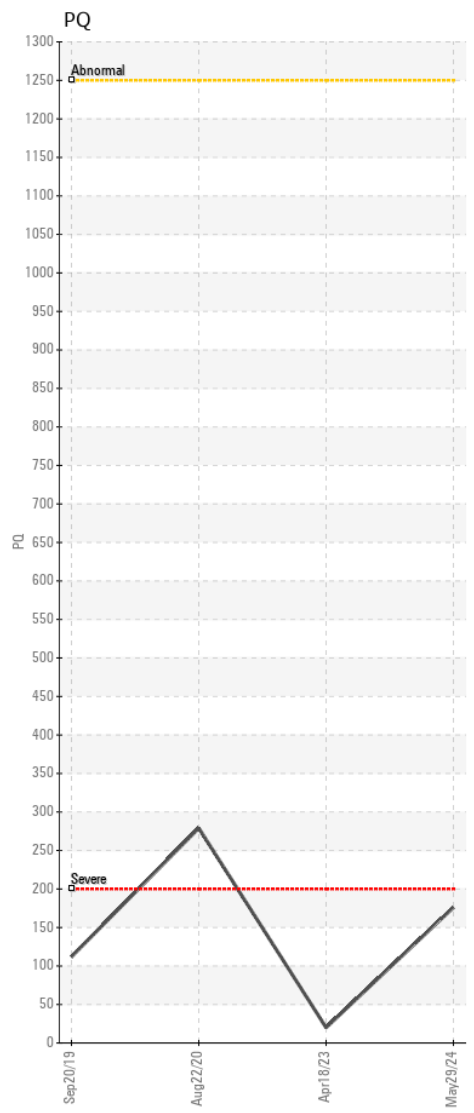
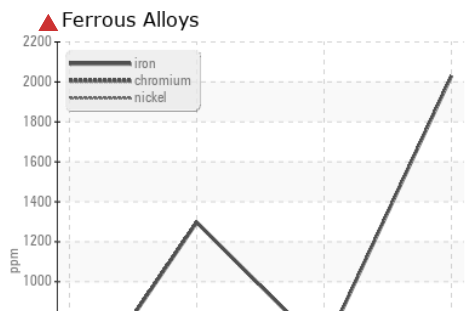
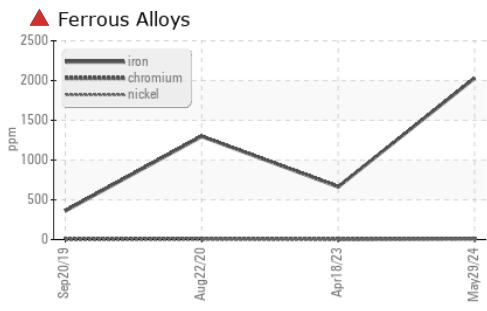
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049019	LEC0038368	LEC0015445
Sample Date		Client Info		29 May 2024	18 Apr 2023	22 Aug 2020
Machine Age	hrs	Client Info		6220	5556	3159
Oil Age	hrs	Client Info		500	1000	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	NORMAL	SEVERE
PQ		ASTM D8184	>1250	176	20	279
Iron	ppm	ASTM D5185m	>750	▲ 2030	663	▲ 1297
Chromium	ppm	ASTM D5185m	>9	▲ 13	6	▲ 10
Nickel	ppm	ASTM D5185m	>10	2	<1	2
Titanium	ppm	ASTM D5185m		9	1	7
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 120	12	● 87
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	2	<1	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 491	43	▲ 323
Potassium	ppm	ASTM D5185m	>20	31	5	14
Water	%	ASTM D6304	>0.075	0.072	---	---
ppm Water	ppm	ASTM D6304	>750	720	---	---
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	>0.075	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	7	0	4
Boron	ppm	ASTM D5185m	400	133	13	2
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	0
Manganese	ppm	ASTM D5185m		16	10	11
Magnesium	ppm	ASTM D5185m	12	11	5	12
Calcium	ppm	ASTM D5185m	150	19	6	118
Phosphorus	ppm	ASTM D5185m	1650	1093	699	490
Zinc	ppm	ASTM D5185m	125	5	4	40
Sulfur	ppm	ASTM D5185m	22500	22466	25056	17530
Visc @ 40°C	cSt	ASTM D445	183	139	130	147



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049019 **Received** : 03 Jul 2024
Lab Number : 06227741 **Tested** : 06 Jul 2024
Unique Number : 11111234 **Diagnosed** : 06 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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 BRIDGEPORT, WV
 US 26330
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 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)