



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
Store 9 - Marietta

Machine Id
JOHN DEERE 568

Component
Left Final Drive

Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0051118	LEC0049458	LEC0045760
Sample Date		Client Info		12 Jun 2024	23 Apr 2024	22 Feb 2024
Machine Age	hrs	Client Info		1722	1620	1566
Oil Age	hrs	Client Info		102	18	70
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	SEVERE

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	26	49	544
Iron	ppm	ASTM D5185m	>750	▲ 725	141	▲ 996
Chromium	ppm	ASTM D5185m	>9	5	1	▲ 12
Nickel	ppm	ASTM D5185m	>10	2	0	6
Titanium	ppm	ASTM D5185m		<1	0	7
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	2	4	● 74
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>40	4	0	3
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

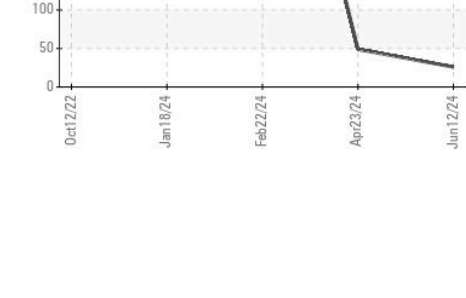
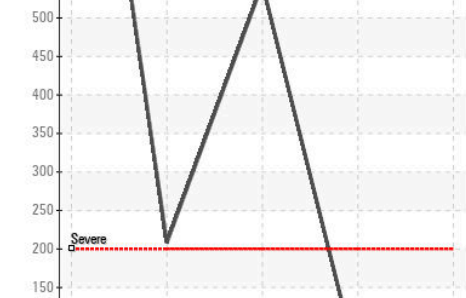
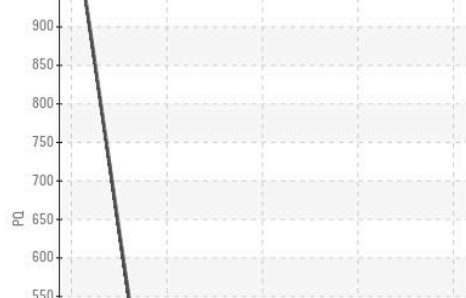
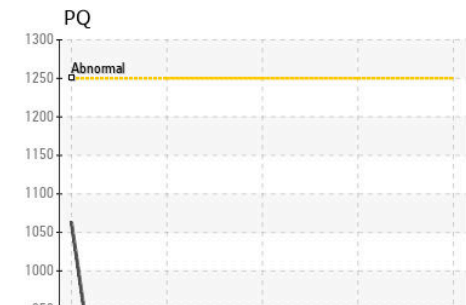
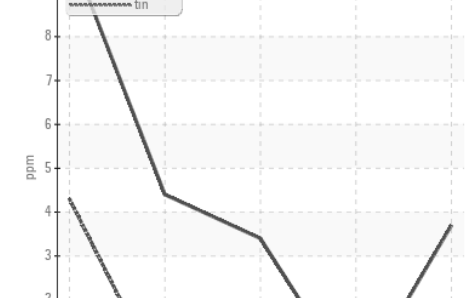
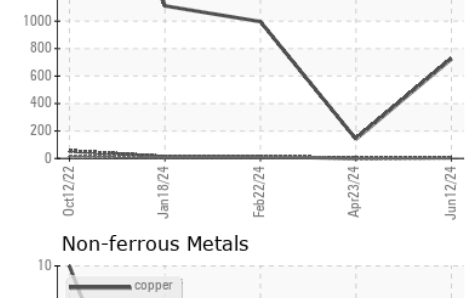
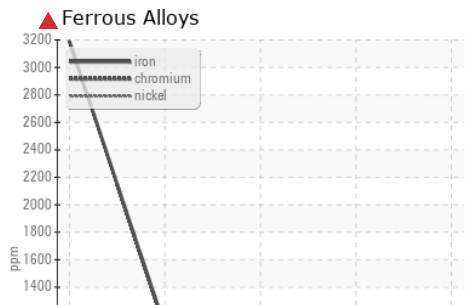
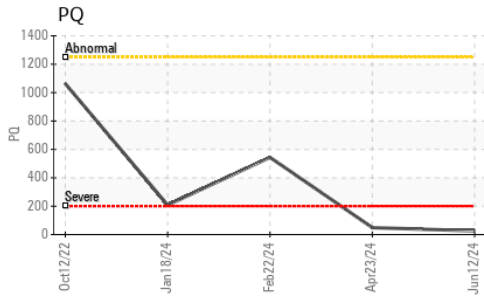
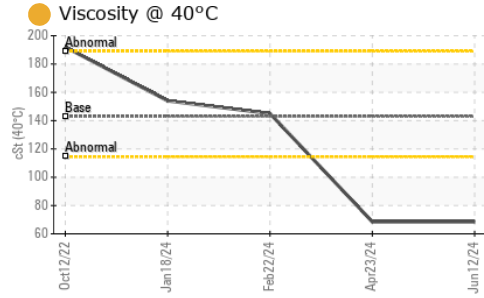
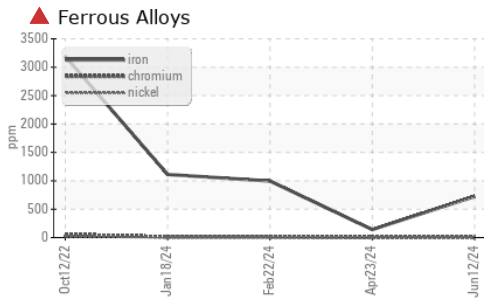
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	16	24	▲ 356
Potassium	ppm	ASTM D5185m	>20	1	0	21
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	<1	<1	5
Boron	ppm	ASTM D5185m	400	67	82	28
Barium	ppm	ASTM D5185m	200	0	0	<1
Molybdenum	ppm	ASTM D5185m	12	<1	0	4
Manganese	ppm	ASTM D5185m		4	1	11
Magnesium	ppm	ASTM D5185m	12	3	2	20
Calcium	ppm	ASTM D5185m	150	0	46	35
Phosphorus	ppm	ASTM D5185m	1650	1303	1161	646
Zinc	ppm	ASTM D5185m	125	60	30	58
Sulfur	ppm	ASTM D5185m	22500	15168	16374	16727
Visc @ 40°C	cSt	ASTM D445	143	● 68.5	● 68.5	145



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0051118 **Received** : 18 Jun 2024
Lab Number : 06213744 **Tested** : 20 Jun 2024
Unique Number : 11086608 **Diagnosed** : 21 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

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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)