



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
JOHN DEERE 88576 (S/N 731157)
Component
Left Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- 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.

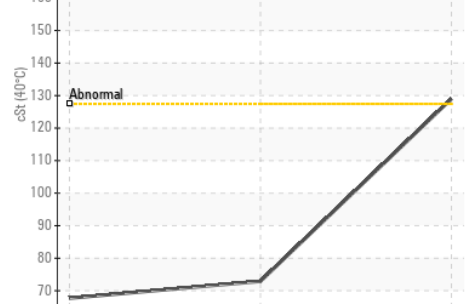
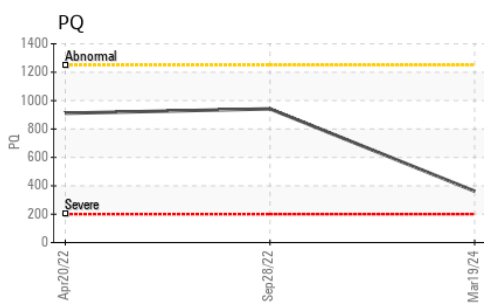
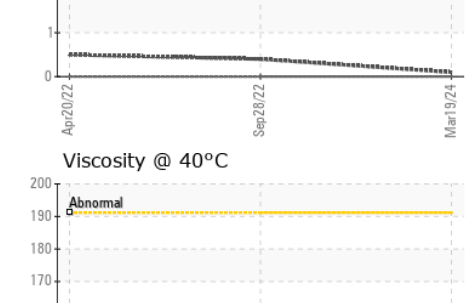
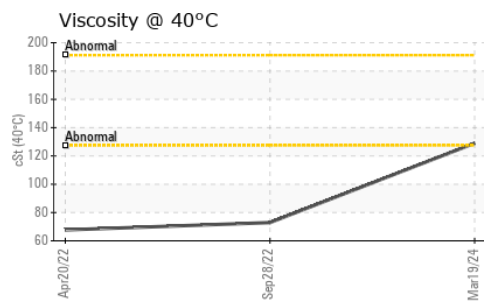
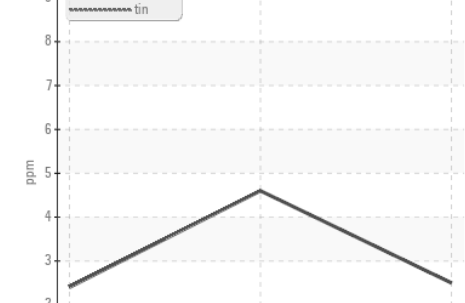
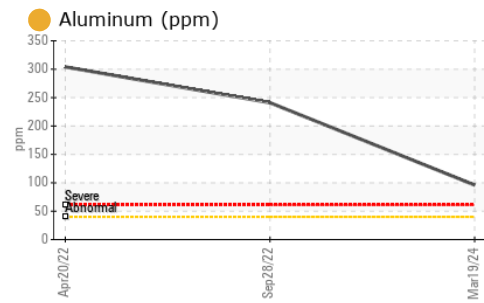
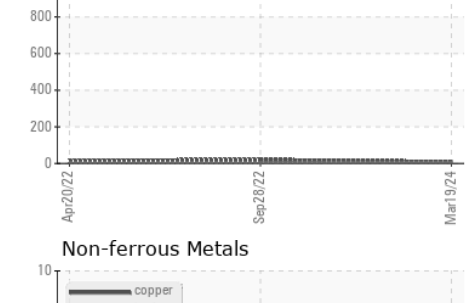
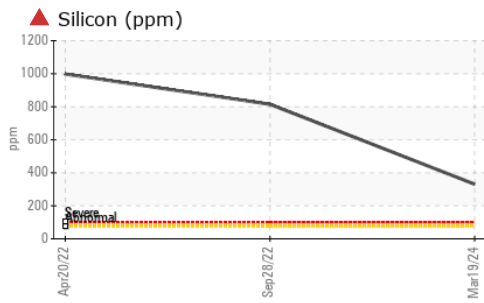
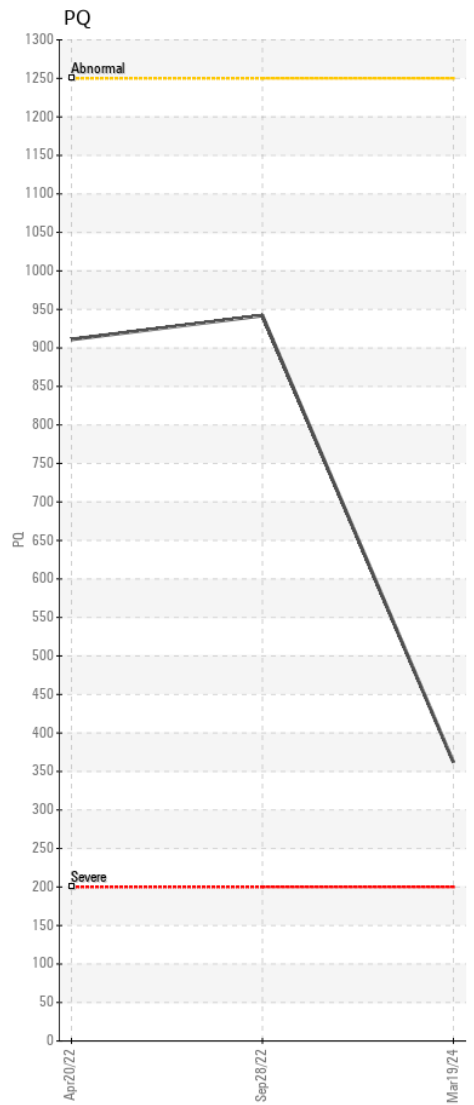
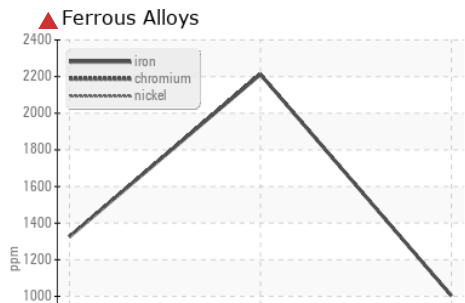
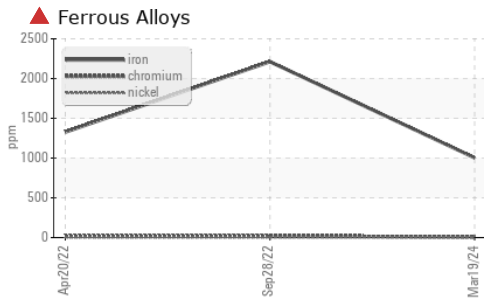
CONTAMINATION

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		LEC0044588	LEC0032746	LEC0029848
Sample Date		Client Info		19 Mar 2024	28 Sep 2022	20 Apr 2022
Machine Age	hrs	Client Info		2277	1368	1011
Oil Age	hrs	Client Info		300	357	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	362	942	911
Iron	ppm	ASTM D5185m	>750	▲ 1003	▲ 2212	▲ 1326
Chromium	ppm	ASTM D5185m	>9	9	▲ 20	▲ 15
Nickel	ppm	ASTM D5185m	>10	3	3	3
Titanium	ppm	ASTM D5185m		7	17	20
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 96	● 241	● 304
Lead	ppm	ASTM D5185m	>15	<1	<1	<1
Copper	ppm	ASTM D5185m	>40	2	5	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 331	▲ 815	▲ 998
Potassium	ppm	ASTM D5185m	>20	29	73	92
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	▲ HEAVY
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	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	<1	9	12
Boron	ppm	ASTM D5185m		9	33	42
Barium	ppm	ASTM D5185m		2	3	0
Molybdenum	ppm	ASTM D5185m		3	6	7
Manganese	ppm	ASTM D5185m		8	21	15
Magnesium	ppm	ASTM D5185m		26	72	123
Calcium	ppm	ASTM D5185m		397	2474	2891
Phosphorus	ppm	ASTM D5185m		406	922	941
Zinc	ppm	ASTM D5185m		169	877	1064
Sulfur	ppm	ASTM D5185m		20386	6801	4495
Visc @ 40°C	cSt	ASTM D445		129	● 72.9	● 67.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044588 **Received** : 21 Mar 2024
Lab Number : 06125177 **Tested** : 25 Mar 2024
Unique Number : 10939328 **Diagnosed** : 25 Mar 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)