



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[COUNTY OF WARREN]
 Machine Id
JOHN DEERE 50G 1FF050GXTJH287986
 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. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195676	JR0138239	JR0015743
Sample Date		Client Info		11 Jan 2024	21 Sep 2022	29 Aug 2019
Machine Age	hrs	Client Info		2330	1829	520
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Gear wear is indicated. All other component wear rates are normal.

PQ		ASTM D8184	>1250	583	267	393
Iron	ppm	ASTM D5185m	>750	▲ 1367	▲ 649	334
Chromium	ppm	ASTM D5185m	>9	▲ 26	▲ 14	10
Nickel	ppm	ASTM D5185m	>10	11	9	1
Titanium	ppm	ASTM D5185m		3	3	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	▲ 19	▲ 20	<1
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	5	3	2
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

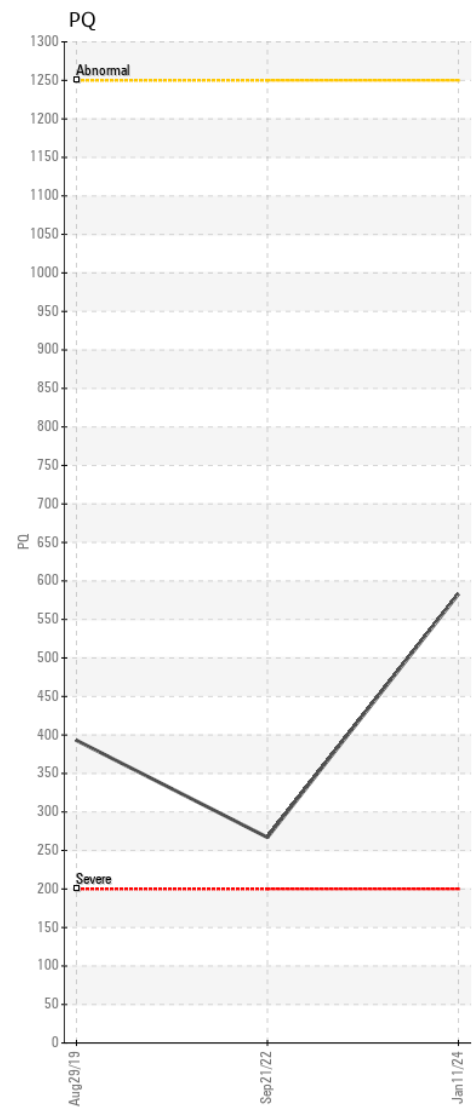
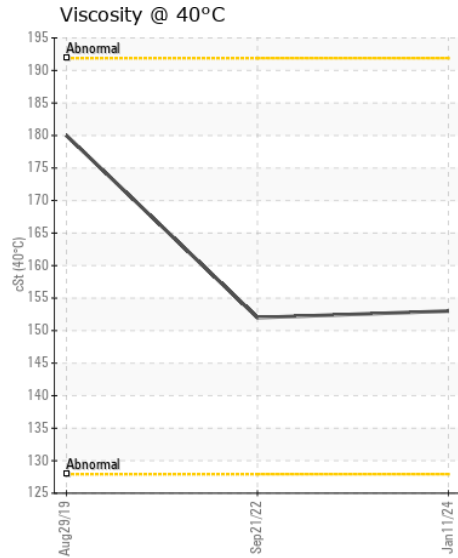
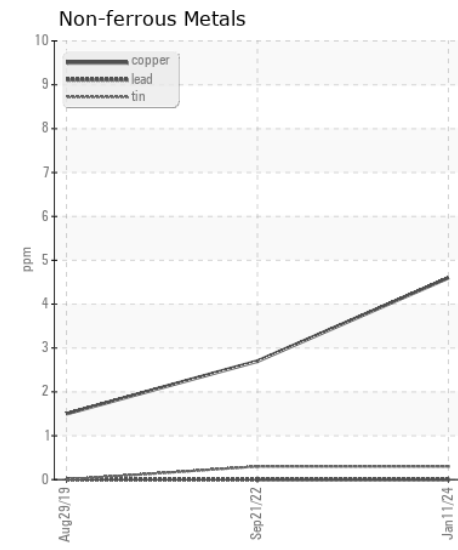
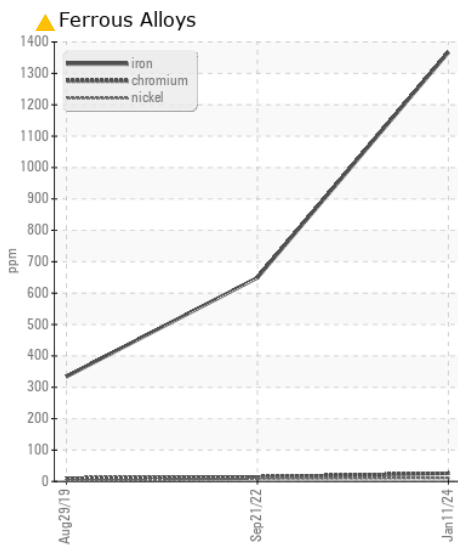
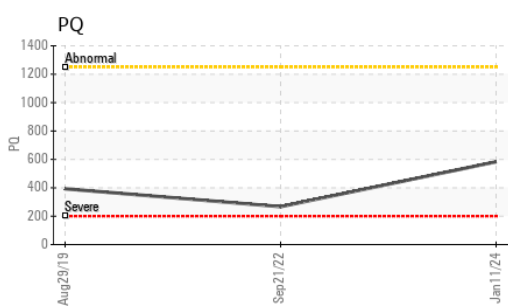
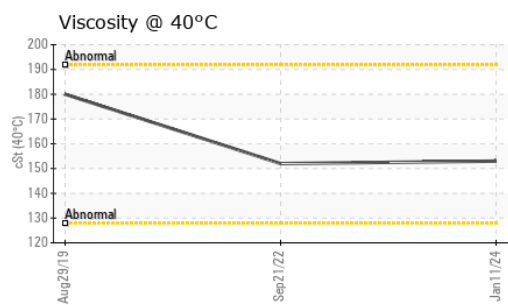
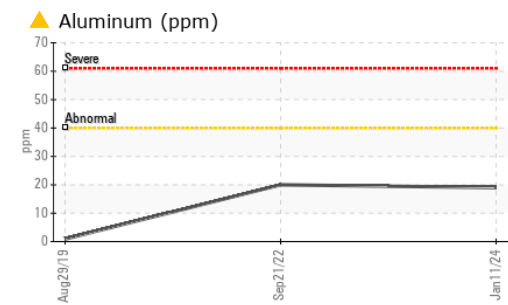
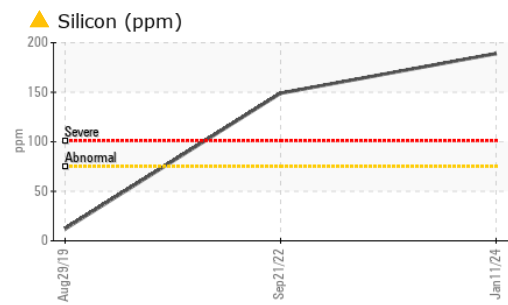
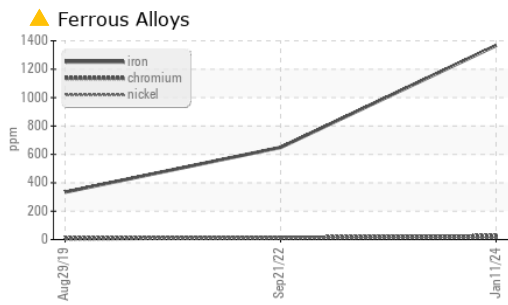
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 189	▲ 149	12
Potassium	ppm	ASTM D5185m	>20	6	6	10
Water		WC Method	>0.075	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	2	3	2
Boron	ppm	ASTM D5185m		19	14	51
Barium	ppm	ASTM D5185m		<1	1	2
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		18	10	8
Magnesium	ppm	ASTM D5185m		14	19	1
Calcium	ppm	ASTM D5185m		29	30	13
Phosphorus	ppm	ASTM D5185m		346	354	460
Zinc	ppm	ASTM D5185m		119	109	142
Sulfur	ppm	ASTM D5185m		16473	18855	13063
Visc @ 40°C	cSt	ASTM D445		153	152	180



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195676 **Received** : 17 Jan 2024
Lab Number : 06063853 **Diagnosed** : 20 Jan 2024
Unique Number : 10835235 **Diagnostician** : Don Baldrige
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)