



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 50G 1FF050GXPEH281399

Component
Right Final Drive

Fluid
JOHN DEERE GL-5 80W90 (1 QTS)

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.

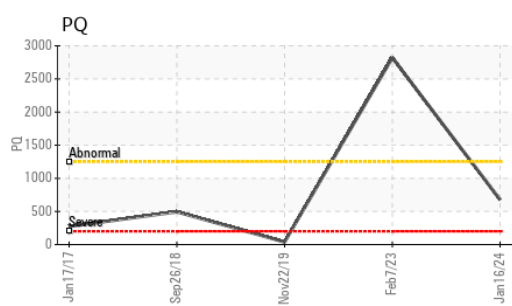
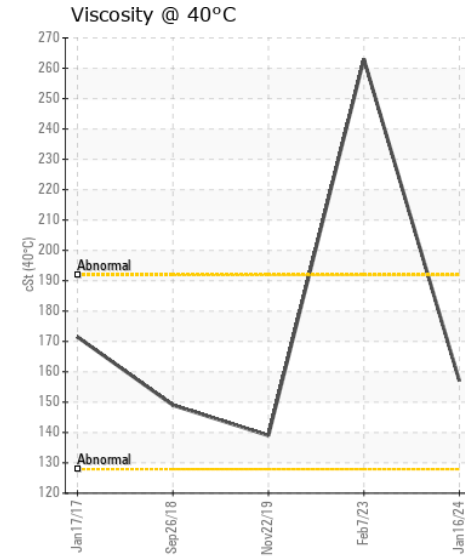
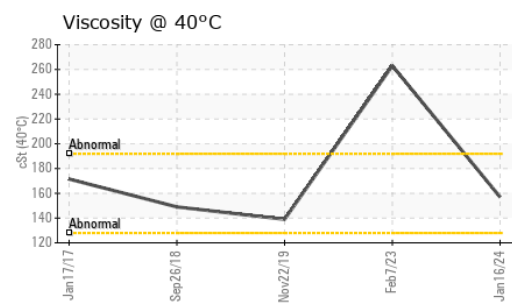
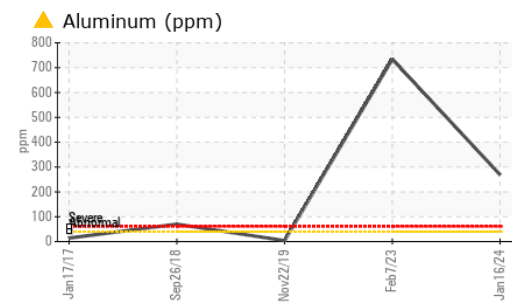
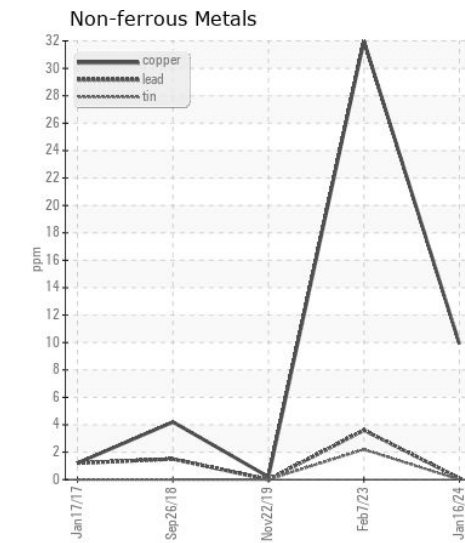
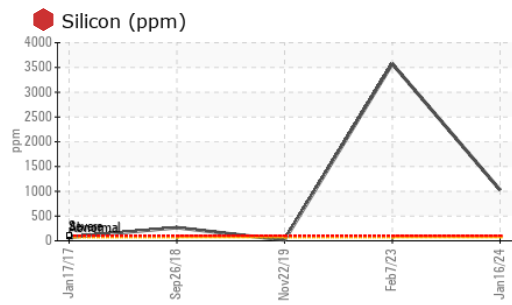
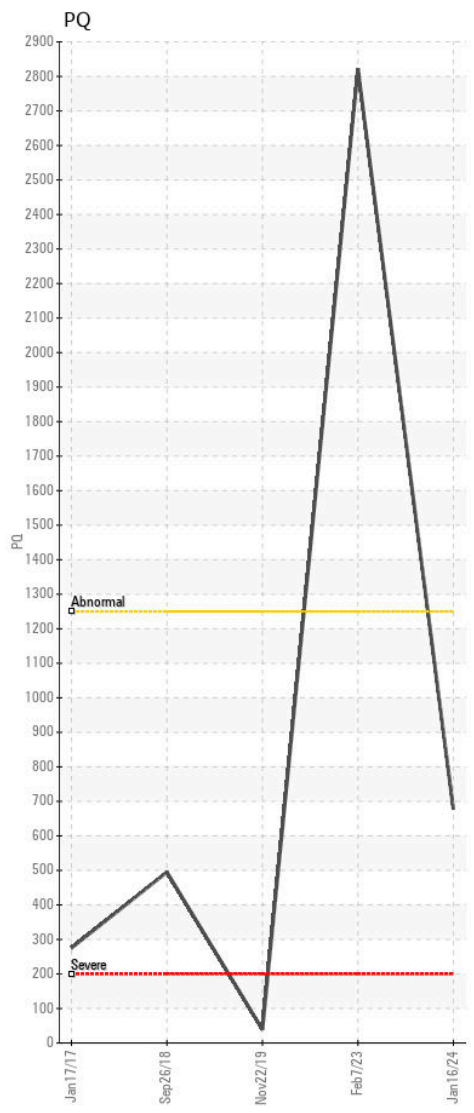
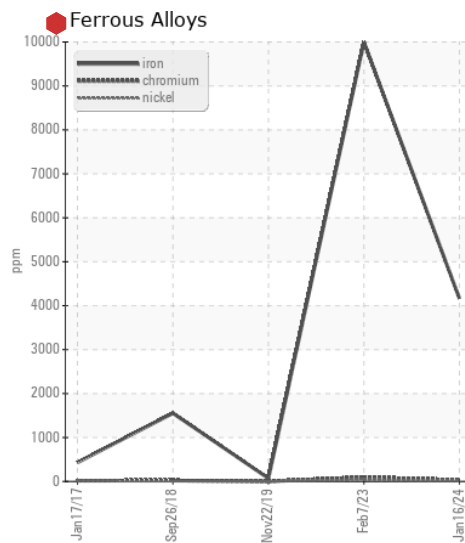
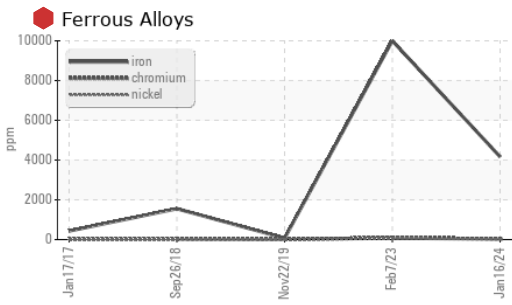
CONTAMINATION

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		JR0195769	JR0160395	JR0033182
Sample Date		Client Info		16 Jan 2024	07 Feb 2023	22 Nov 2019
Machine Age	hrs	Client Info		6429	5883	4300
Oil Age	hrs	Client Info		546	3664	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	NORMAL
PQ		ASTM D8184	>1250	677	2822	39
Iron	ppm	ASTM D5185m	>750	4166	10000	70
Chromium	ppm	ASTM D5185m	>9	33	96	<1
Nickel	ppm	ASTM D5185m	>10	10	39	0
Titanium	ppm	ASTM D5185m		29	108	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	269	734	4
Lead	ppm	ASTM D5185m	>15	<1	4	0
Copper	ppm	ASTM D5185m	>40	10	32	<1
Tin	ppm	ASTM D5185m	>10	0	2	0
Vanadium	ppm	ASTM D5185m		<1	3	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	1026	3573	15
Potassium	ppm	ASTM D5185m	>20	55	202	3
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	0.2%	NEG
Sodium	ppm	ASTM D5185m	>51	11	64	1
Boron	ppm	ASTM D5185m		17	61	9
Barium	ppm	ASTM D5185m		<1	4	0
Molybdenum	ppm	ASTM D5185m		3	12	1
Manganese	ppm	ASTM D5185m		28	83	<1
Magnesium	ppm	ASTM D5185m		28	108	6
Calcium	ppm	ASTM D5185m		29	117	10
Phosphorus	ppm	ASTM D5185m		338	309	298
Zinc	ppm	ASTM D5185m		0	16	9
Sulfur	ppm	ASTM D5185m		20031	17992	15366
Visc @ 40°C	cSt	ASTM D445		157	263	139



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195769 **Received** : 18 Jan 2024
Lab Number : 06065152 **Diagnosed** : 22 Jan 2024
Unique Number : 10836534 **Diagnostician** : Sean Felton
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)