



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area

[BENCHMARK]

Machine Id

JOHN DEERE 350G 1FF350GXKEE809751

Component

Left Final Drive

Fluid

JOHN DEERE GL-5 80W90 (2 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter 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		JR0203262	JR0153272	JR0132857
Sample Date		Client Info		29 Jan 2024	17 Mar 2023	27 Jun 2022
Machine Age	hrs	Client Info		10096	9283	8481
Oil Age	hrs	Client Info		0	802	6879
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	N/A	None
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	483	426	755
Iron	ppm	ASTM D5185m	>750	2913	1698	1892
Chromium	ppm	ASTM D5185m	>9	17	10	9
Nickel	ppm	ASTM D5185m	>10	4	4	2
Titanium	ppm	ASTM D5185m		27	17	7
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	370	252	87
Lead	ppm	ASTM D5185m	>15	1	0	0
Copper	ppm	ASTM D5185m	>40	6	3	3
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

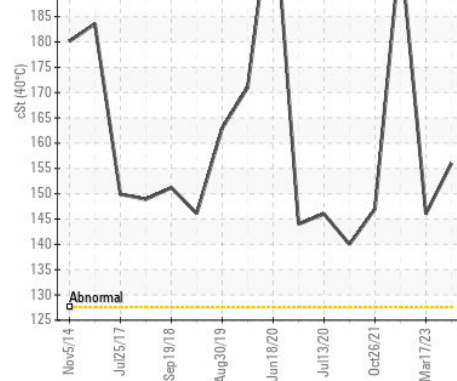
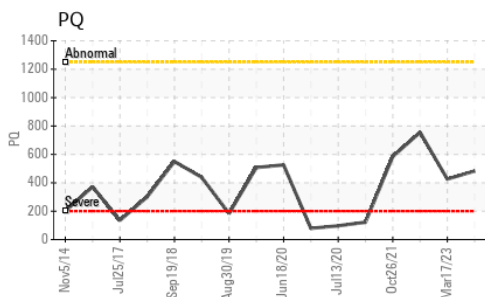
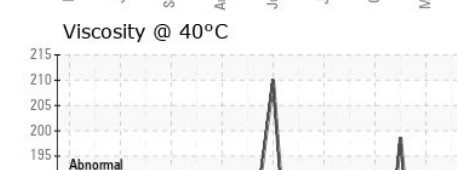
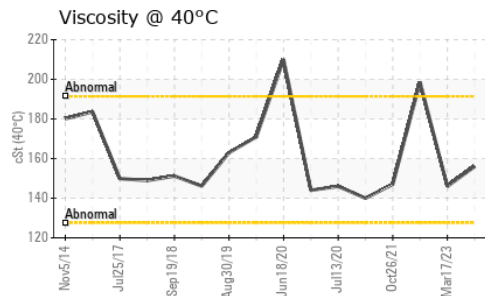
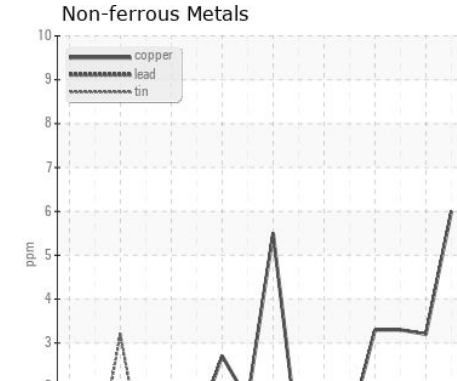
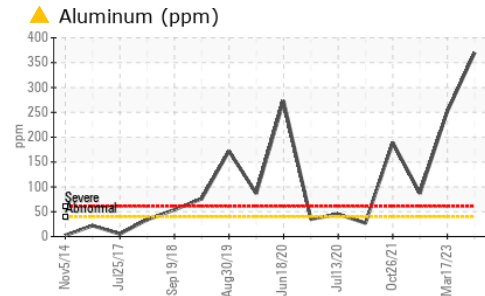
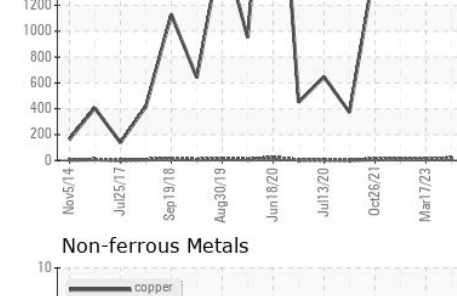
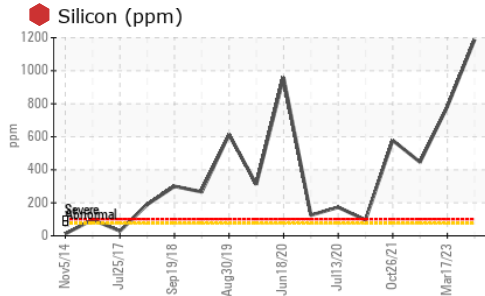
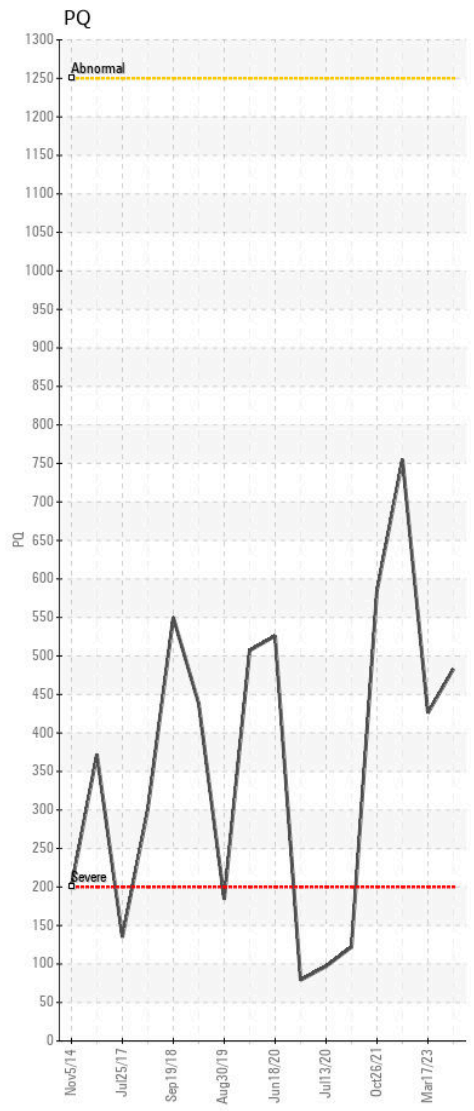
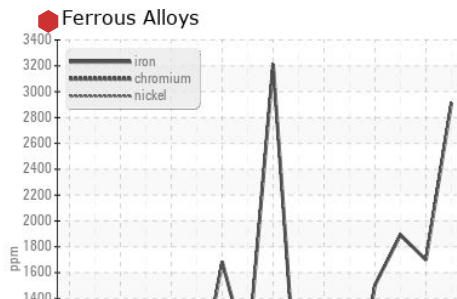
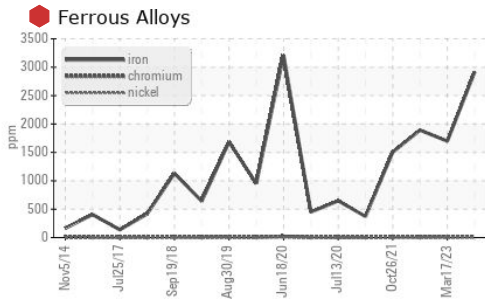
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	1188	783	446
Potassium	ppm	ASTM D5185m	>20	92	59	19
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	65	47	12
Boron	ppm	ASTM D5185m		13	11	12
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	1	1
Manganese	ppm	ASTM D5185m		20	13	12
Magnesium	ppm	ASTM D5185m		94	67	17
Calcium	ppm	ASTM D5185m		127	82	23
Phosphorus	ppm	ASTM D5185m		364	364	199
Zinc	ppm	ASTM D5185m		5	<1	4
Sulfur	ppm	ASTM D5185m		19302	23425	16049
Visc @ 40°C	cSt	ASTM D445		156	146	198.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203262 **Received** : 14 Feb 2024
Lab Number : 06089709 **Tested** : 16 Feb 2024
Unique Number : 10877154 **Diagnosed** : 16 Feb 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)