



Area
[44841]
 Machine Id
JOHN DEERE 245G 1FF245GXVJF801010
 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 recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195893	JR0176230	JR0154632
Sample Date		Client Info		13 Feb 2024	13 Jul 2023	05 Dec 2022
Machine Age	hrs	Client Info		5915	5404	4936
Oil Age	hrs	Client Info		4492	1500	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	442	439	339
Iron	ppm	ASTM D5185m	>750	1054	916	659
Chromium	ppm	ASTM D5185m	>9	8	8	6
Nickel	ppm	ASTM D5185m	>10	4	3	3
Titanium	ppm	ASTM D5185m		6	6	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	▲ 68	▲ 65	▲ 40
Lead	ppm	ASTM D5185m	>15	0	<1	<1
Copper	ppm	ASTM D5185m	>40	3	5	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

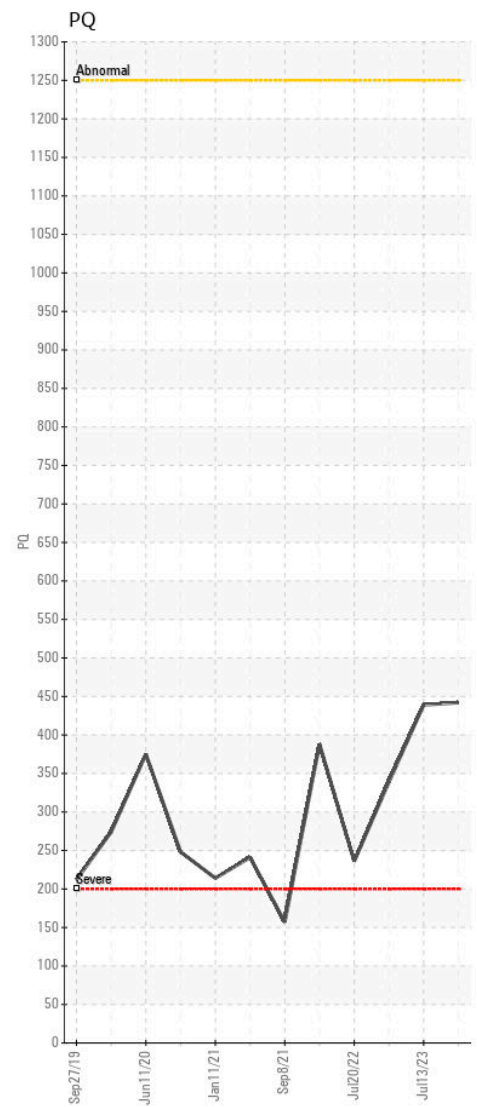
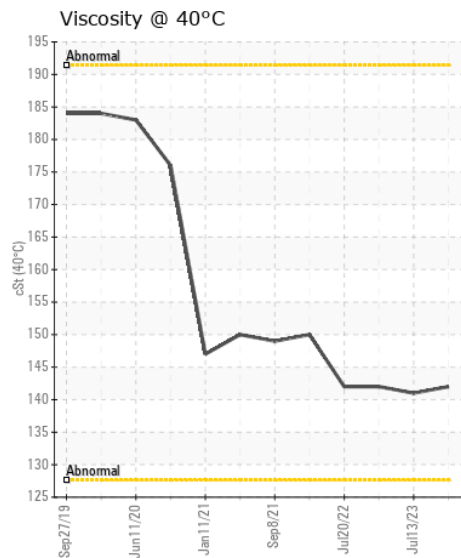
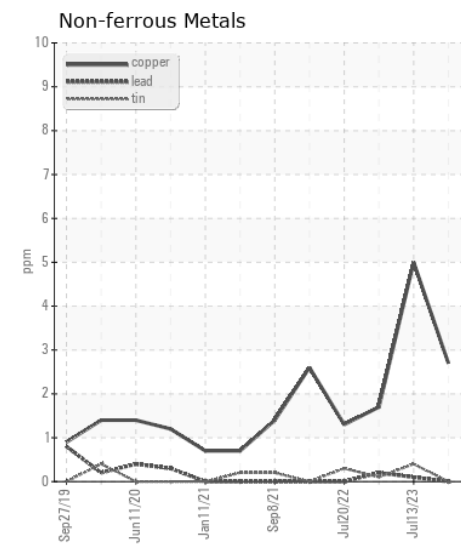
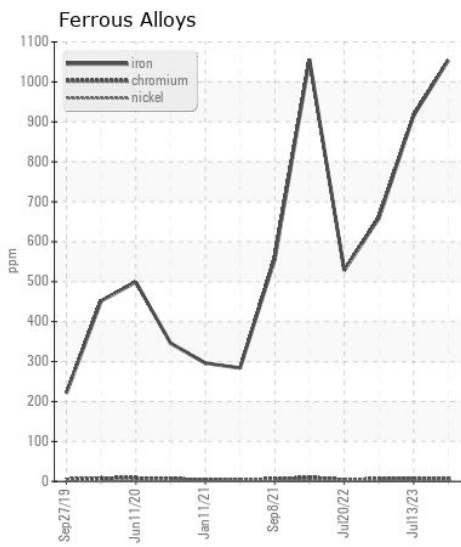
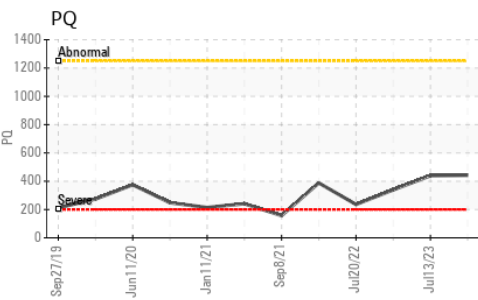
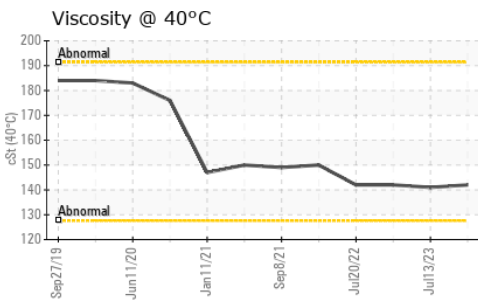
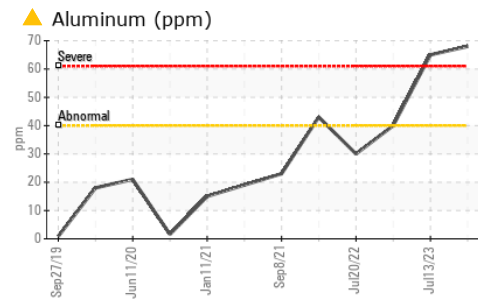
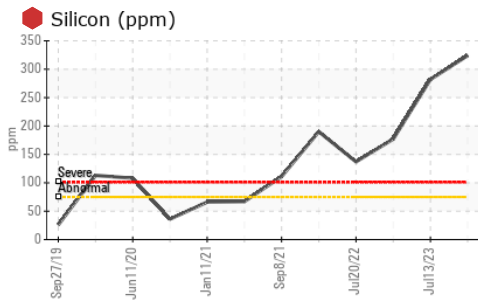
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	◆ 324	▲ 282	▲ 177
Potassium	ppm	ASTM D5185m	>20	19	16	8
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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	1	3	1
Boron	ppm	ASTM D5185m		10	7	5
Barium	ppm	ASTM D5185m		12	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		9	9	6
Magnesium	ppm	ASTM D5185m		8	7	7
Calcium	ppm	ASTM D5185m		19	23	15
Phosphorus	ppm	ASTM D5185m		312	392	356
Zinc	ppm	ASTM D5185m		15	9	15
Sulfur	ppm	ASTM D5185m		18539	23004	20622
Visc @ 40°C	cSt	ASTM D445		142	141	142



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195893 **Received** : 14 Feb 2024
Lab Number : 06089687 **Tested** : 16 Feb 2024
Unique Number : 10877132 **Diagnosed** : 16 Feb 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

CWS-STRITTMATTER
 9102 OWENS DR
 MANASSAS PARK, VA
 US 20111

Contact: EDDIE GARRETSON
 egarretson@strittmattercompanies.com

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)

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