



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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0195895	JR0176231	JR0154634
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	4459
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
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	315	275	297
Iron	ppm	ASTM D5185m	>750	966	▲ 804	710
Chromium	ppm	ASTM D5185m	>9	8	7	6
Nickel	ppm	ASTM D5185m	>10	3	2	2
Titanium	ppm	ASTM D5185m		5	3	3
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	▲ 48	▲ 36	▲ 32
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	2	3	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

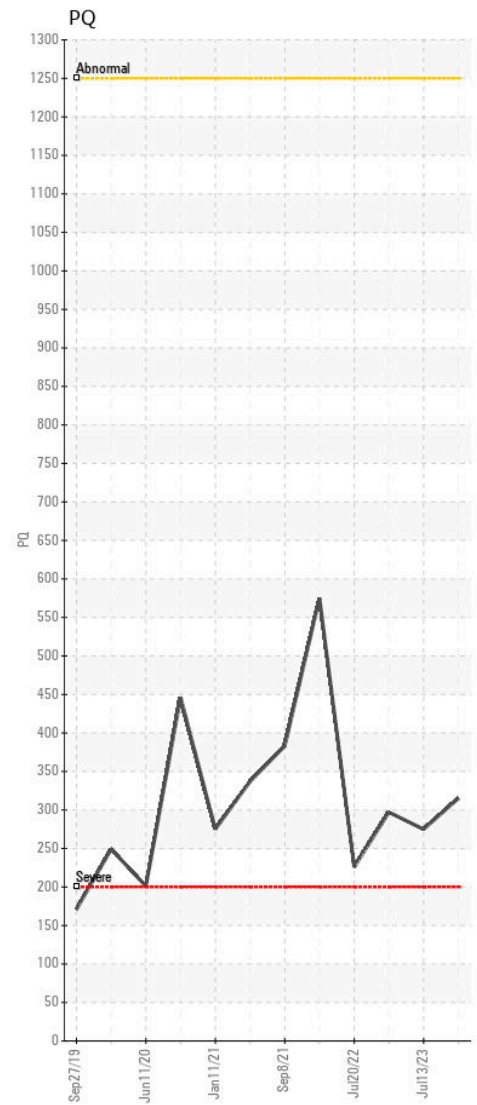
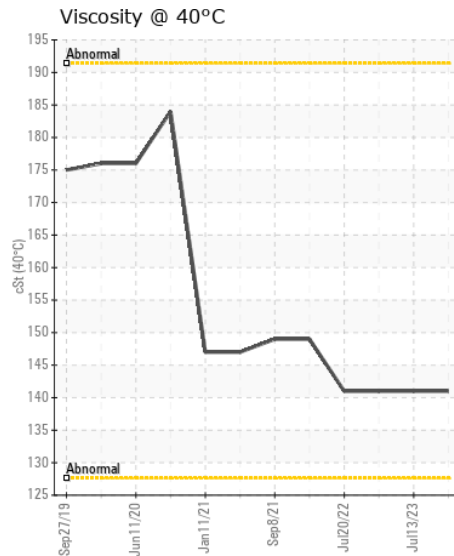
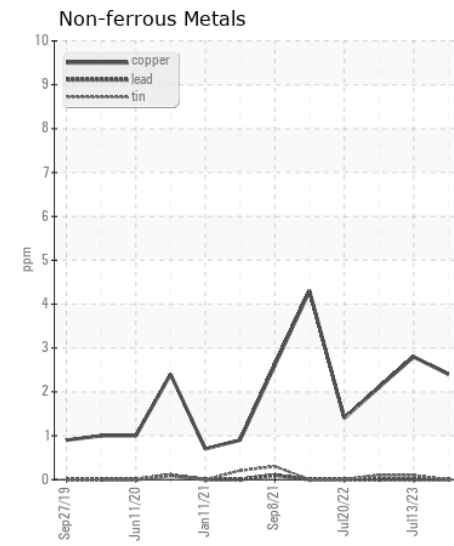
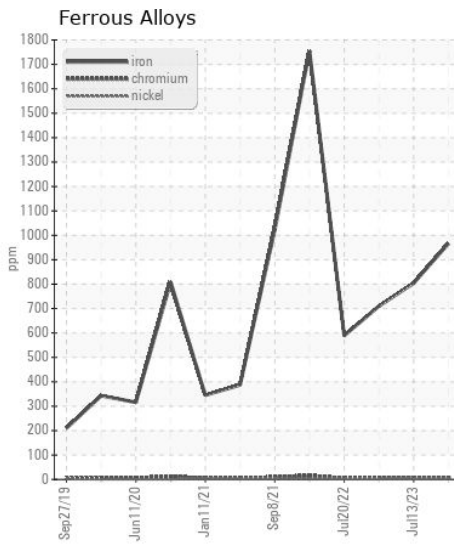
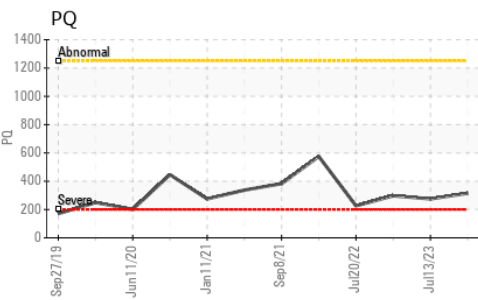
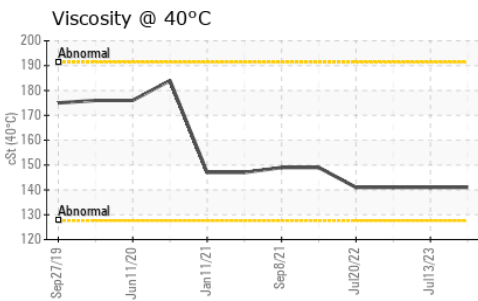
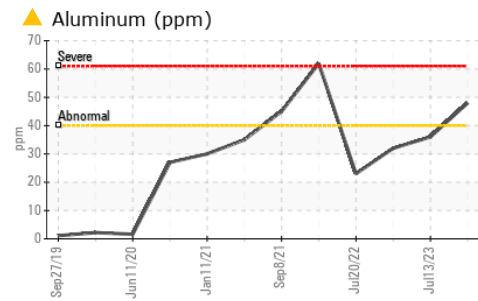
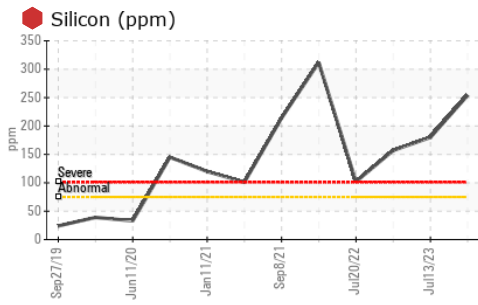
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	● 254	▲ 180	▲ 157
Potassium	ppm	ASTM D5185m	>20	12	8	5
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	2	2
Boron	ppm	ASTM D5185m		11	9	7
Barium	ppm	ASTM D5185m		11	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		8	8	7
Magnesium	ppm	ASTM D5185m		11	8	10
Calcium	ppm	ASTM D5185m		19	19	28
Phosphorus	ppm	ASTM D5185m		447	540	489
Zinc	ppm	ASTM D5185m		16	11	24
Sulfur	ppm	ASTM D5185m		19184	23798	21834
Visc @ 40°C	cSt	ASTM D445		141	141	141



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0195895

Lab Number : 06089698

Unique Number : 10877143

Test Package : CONST (Additional Tests: PQ)

Received : 14 Feb 2024

Tested : 16 Feb 2024

Diagnosed : 16 Feb 2024 - Sean Felton

CWS-STRITTMATTER

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MANASSAS PARK, VA

US 20111

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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)