



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL

Area
[05W47032]

Machine Id
JOHN DEERE 245G 1FF245GXVJF801010

Component
Right Final Drive

Fluid
JOHN DEERE GL-5 80W90 (8 QTS)

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		JR0218084	JR0195895	JR0176231
Sample Date		Client Info		30 May 2024	13 Feb 2024	13 Jul 2023
Machine Age	hrs	Client Info		6415	5915	5404
Oil Age	hrs	Client Info		500	4492	1500
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	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	173	315	275
Iron	ppm	ASTM D5185m	>750	675	966	▲ 804
Chromium	ppm	ASTM D5185m	>9	4	8	7
Nickel	ppm	ASTM D5185m	>10	2	3	2
Titanium	ppm	ASTM D5185m		5	5	3
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 63	▲ 48	● 36
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	<1	2	3
Tin	ppm	ASTM D5185m	>10	<1	0	<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

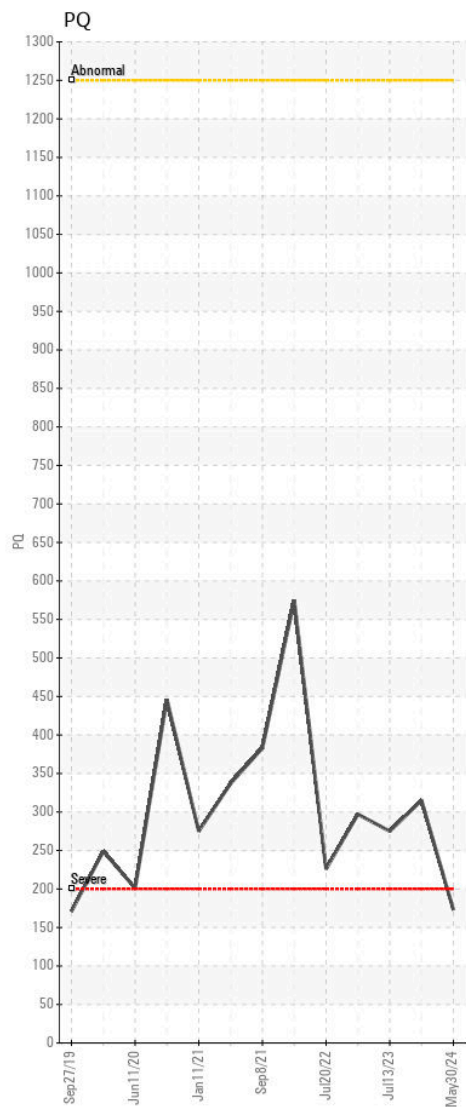
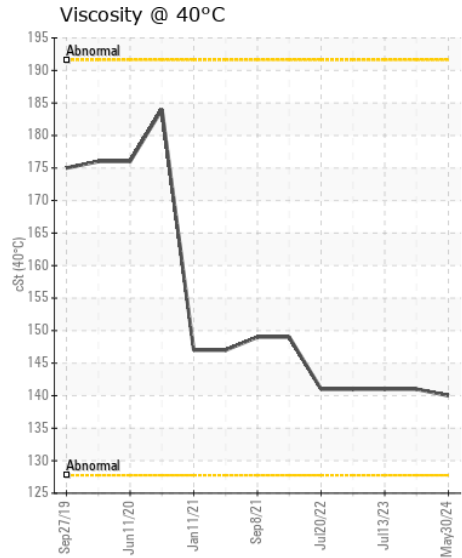
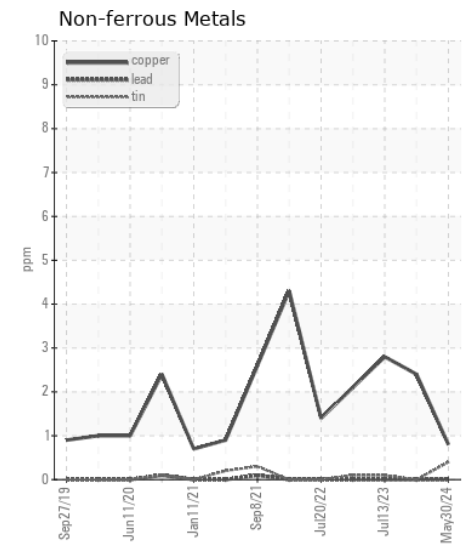
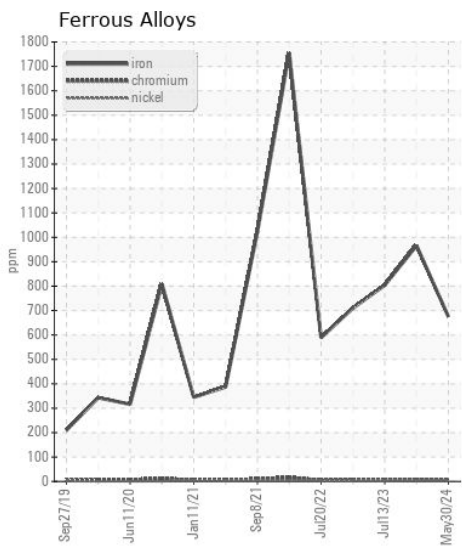
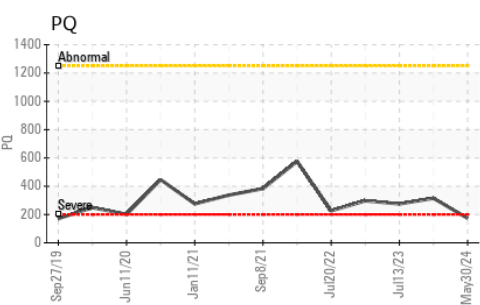
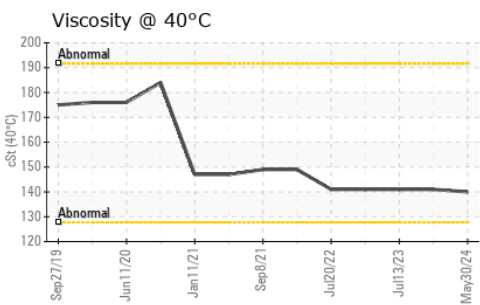
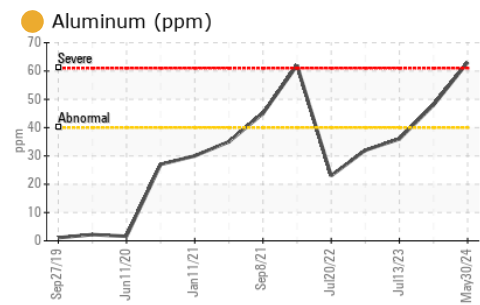
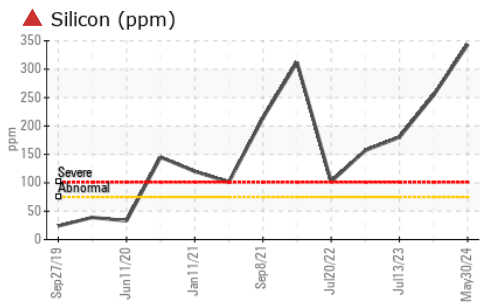
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 343	▲ 254	▲ 180
Potassium	ppm	ASTM D5185m	>20	14	12	8
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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	3	<1	2
Boron	ppm	ASTM D5185m		7	11	9
Barium	ppm	ASTM D5185m		0	11	0
Molybdenum	ppm	ASTM D5185m		4	<1	<1
Manganese	ppm	ASTM D5185m		6	8	8
Magnesium	ppm	ASTM D5185m		15	11	8
Calcium	ppm	ASTM D5185m		27	19	19
Phosphorus	ppm	ASTM D5185m		394	447	540
Zinc	ppm	ASTM D5185m		4	16	11
Sulfur	ppm	ASTM D5185m		22110	19184	23798
Visc @ 40°C	cSt	ASTM D445		140	141	141



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0218084
Lab Number : 06196944
Unique Number : 11059067
Test Package : CONST (Additional Tests: PQ)

Received : 31 May 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Sean Felton

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

Contact: EDDIE GARRETSON
 egarretson@strittmattercompanies.com
 T: (703)335-2255
 F: (703)335-8095

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)