



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL



Area
[16W16417]
Machine Id
JOHN DEERE 210G 1FF210GXLMF529559
Component
Left Final Drive
Fluid
JOHN DEERE GL-5 80W90 (9 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. (Customer Sample Comment: 16W16417)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217312	JR0196257	JR0173857
Sample Date		Client Info		25 Jun 2024	26 Jan 2024	09 May 2023
Machine Age	hrs	Client Info		2502	2036	1498
Oil Age	hrs	Client Info		466	2036	1498
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				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	335	593	401
Iron	ppm	ASTM D5185m	>750	664	952	526
Chromium	ppm	ASTM D5185m	>9	8	12	8
Nickel	ppm	ASTM D5185m	>10	1	2	1
Titanium	ppm	ASTM D5185m		2	5	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	15	46	30
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	1	2	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

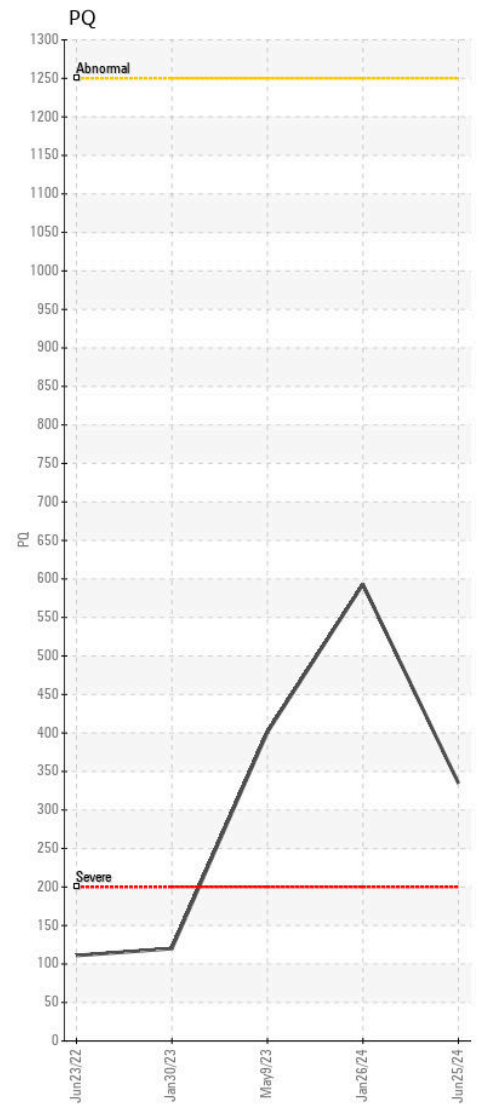
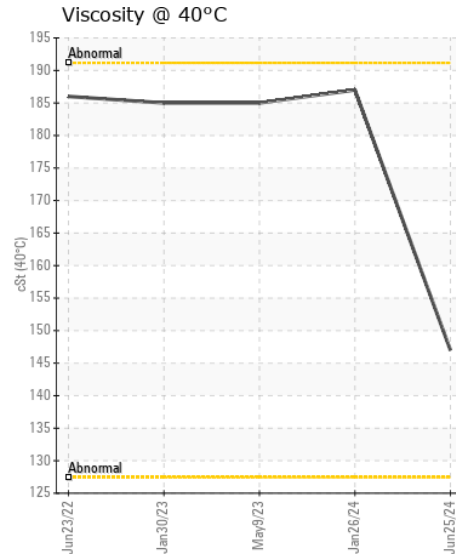
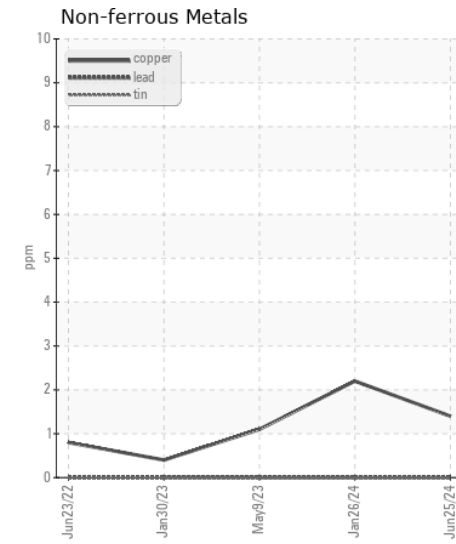
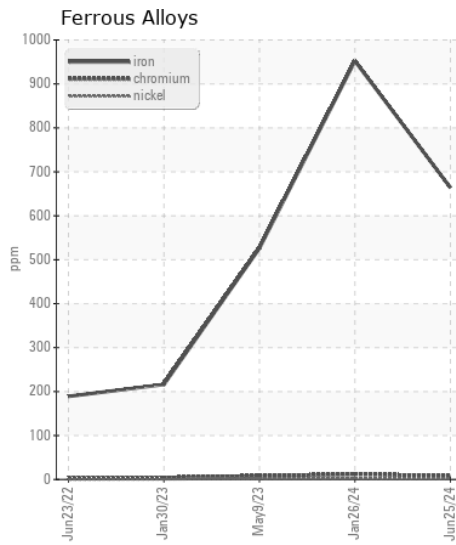
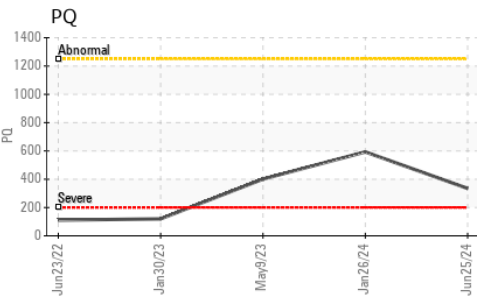
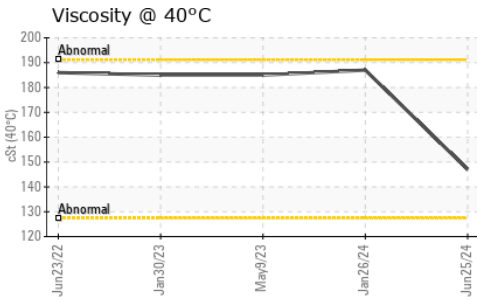
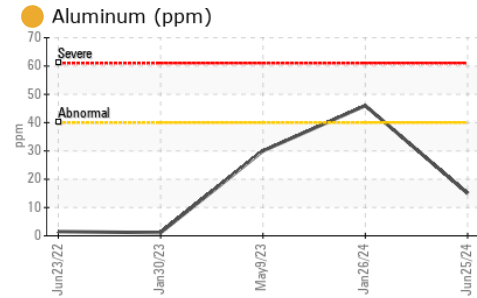
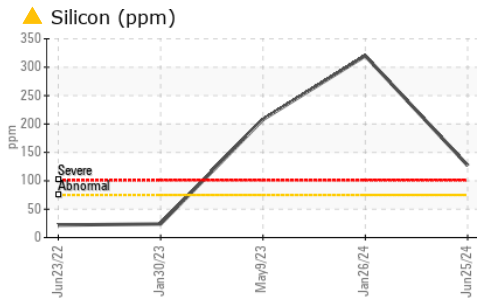
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	127	320	208
Potassium	ppm	ASTM D5185m	>20	8	17	10
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<1	0	2
Boron	ppm	ASTM D5185m		9	62	57
Barium	ppm	ASTM D5185m		2	9	6
Molybdenum	ppm	ASTM D5185m		1	0	<1
Manganese	ppm	ASTM D5185m		7	12	8
Magnesium	ppm	ASTM D5185m		4	5	4
Calcium	ppm	ASTM D5185m		6	23	18
Phosphorus	ppm	ASTM D5185m		350	527	532
Zinc	ppm	ASTM D5185m		13	23	21
Sulfur	ppm	ASTM D5185m		19613	17149	18646
Visc @ 40°C	cSt	ASTM D445		147	187	185



Certificate L2367

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

Sample No. : JR0217312

Lab Number : 06222567

Unique Number : 11100764

Test Package : CONST (Additional Tests: PQ)

Received : 27 Jun 2024

Tested : 28 Jun 2024

Diagnosed : 29 Jun 2024 - Don Baldrige

JRE - NEW BERN

3816 MARTIN LUTHER KING BLVD

NEW BERN, NC

US 28562

Contact: NEW BERN SHOP

nick.etheridge@jamesriverequipment.com; canastasio@wearcheckusa.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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F: