



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 300G 1FF300GXVJF730720
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. The oil 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.

WEAR

Gear wear is indicated.

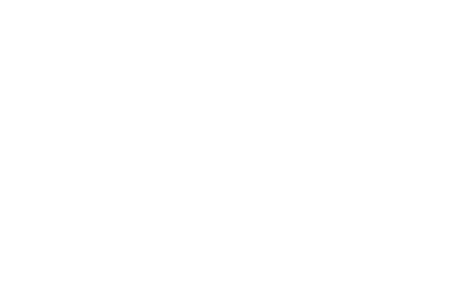
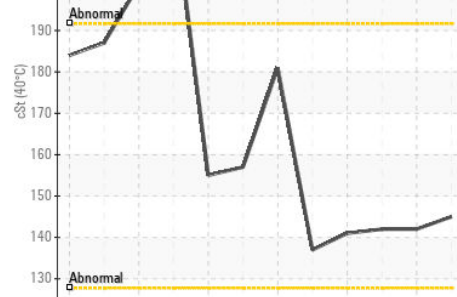
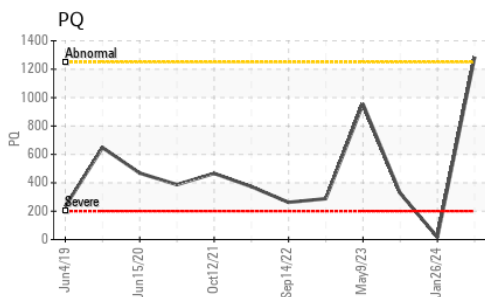
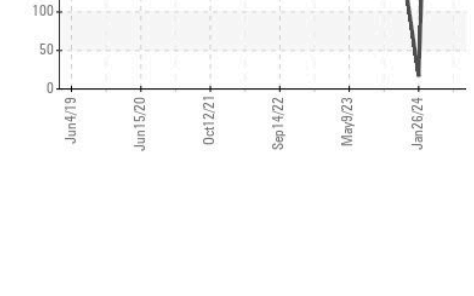
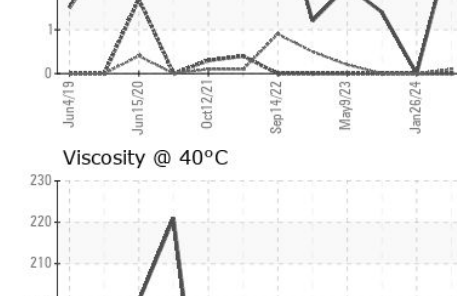
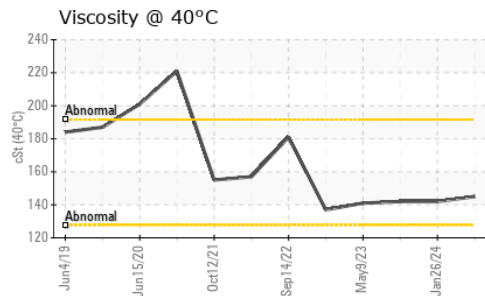
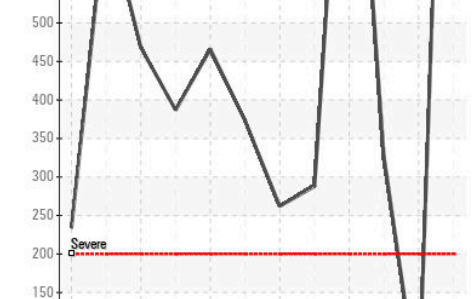
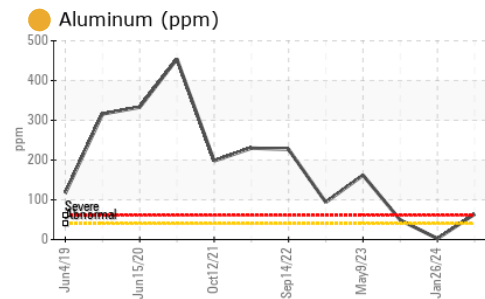
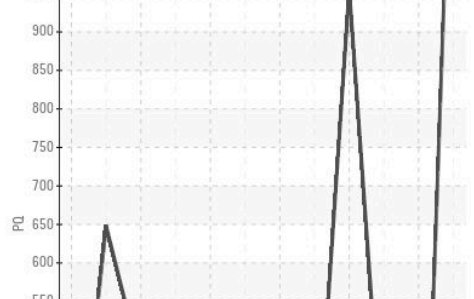
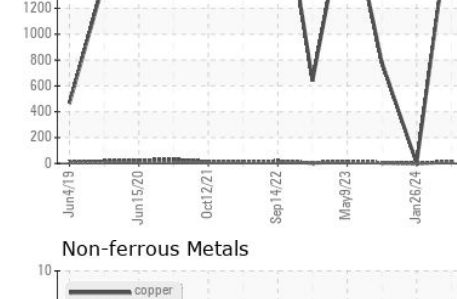
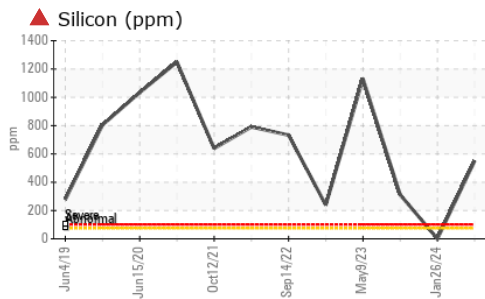
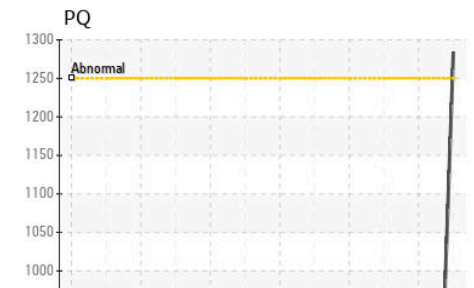
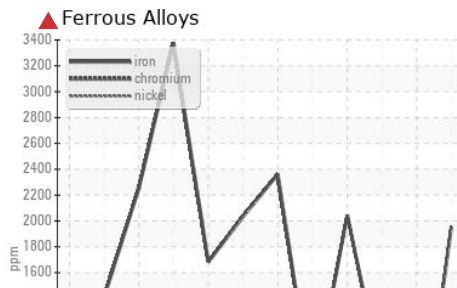
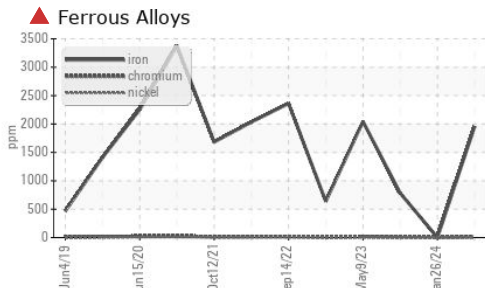
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215978	JR0198274	JR0177351
Sample Date		Client Info		24 May 2024	26 Jan 2024	15 Aug 2023
Machine Age	hrs	Client Info		0	4719	4380
Oil Age	hrs	Client Info		0	4396	4380
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	SEVERE
PQ		ASTM D8184	>1250	1284	17	326
Iron	ppm	ASTM D5185m	>750	▲ 1955	2	▲ 782
Chromium	ppm	ASTM D5185m	>9	▲ 12	<1	5
Nickel	ppm	ASTM D5185m	>10	3	0	3
Titanium	ppm	ASTM D5185m		8	0	5
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 64	2	● 49
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	3	0	1
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 550	<1	▲ 311
Potassium	ppm	ASTM D5185m	>20	12	1	8
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
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
Sodium	ppm	ASTM D5185m	>51	6	0	4
Boron	ppm	ASTM D5185m		5	3	6
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		1	0	4
Manganese	ppm	ASTM D5185m		13	0	5
Magnesium	ppm	ASTM D5185m		13	3	24
Calcium	ppm	ASTM D5185m		27	11	39
Phosphorus	ppm	ASTM D5185m		326	350	348
Zinc	ppm	ASTM D5185m		9	0	13
Sulfur	ppm	ASTM D5185m		21386	22224	22356
Visc @ 40°C	cSt	ASTM D445		145	142	142



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215978
Lab Number : 06194259
Unique Number : 11056382
Test Package : CONST (Additional Tests: PQ)

Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 31 May 2024 - Don Baldrige

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.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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