



WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[W49604]

Machine Id

JOHN DEERE 333G 1T0333GMPMF402468

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. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200009	JR0164354	JR0123999
Sample Date		Client Info		08 Feb 2024	07 Apr 2023	09 Aug 2022
Machine Age	hrs	Client Info		1479	966	5877
Oil Age	hrs	Client Info		0	0	5877
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	390	212	82
Iron	ppm	ASTM D5185m	>750	1878	987	478
Chromium	ppm	ASTM D5185m	>9	22	12	6
Nickel	ppm	ASTM D5185m	>10	10	6	2
Titanium	ppm	ASTM D5185m		5	1	<1
Silver	ppm	ASTM D5185m		0	0	2
Aluminum	ppm	ASTM D5185m	>40	57	15	6
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>40	3	2	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

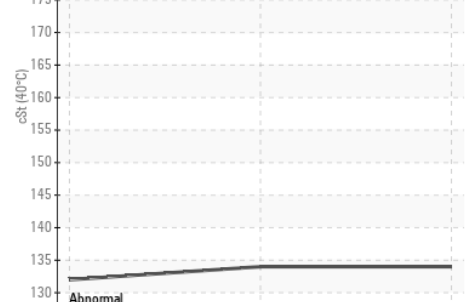
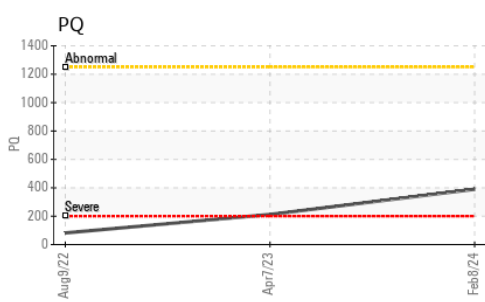
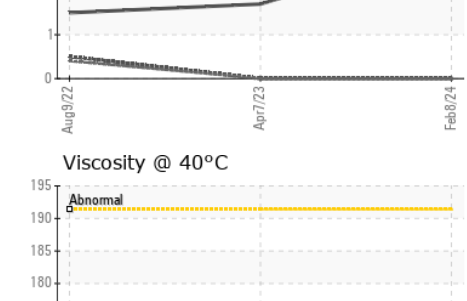
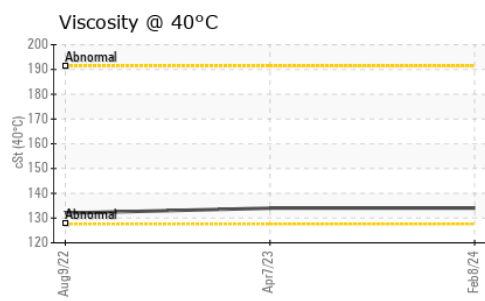
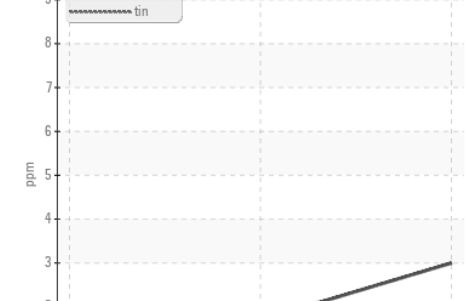
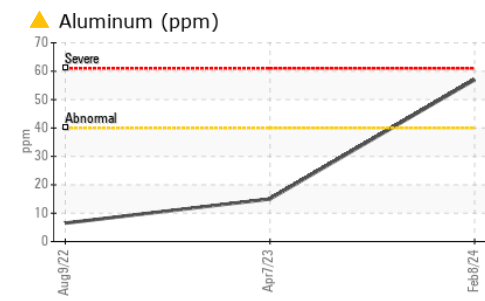
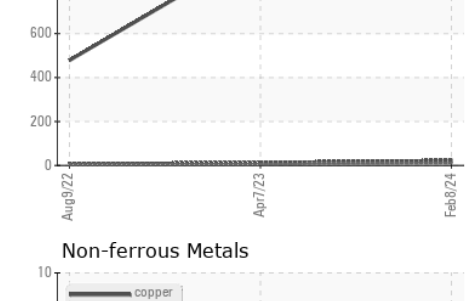
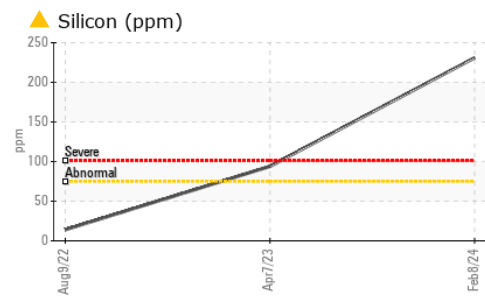
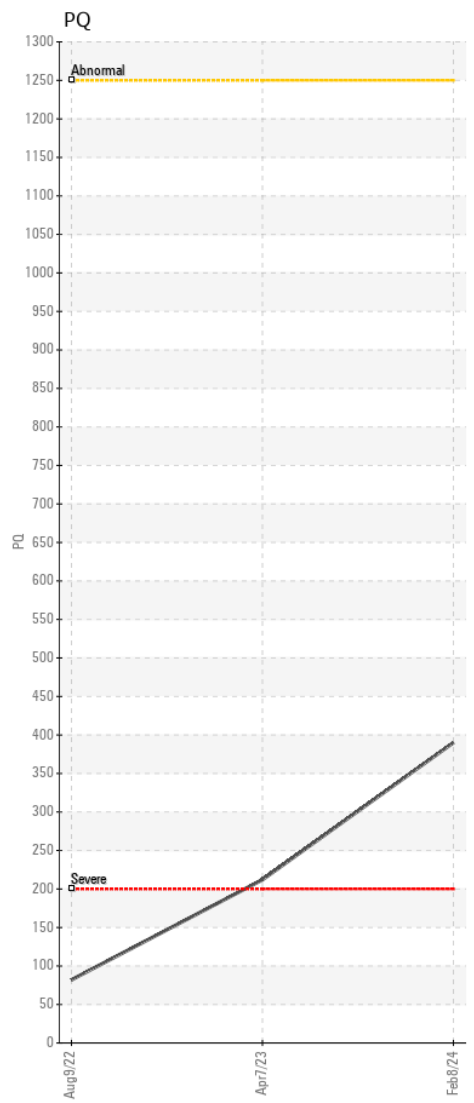
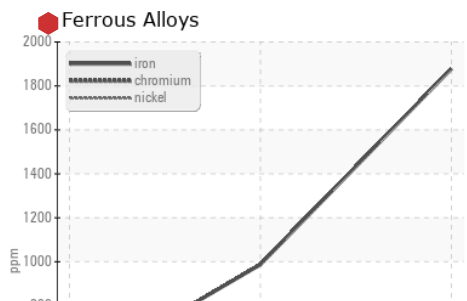
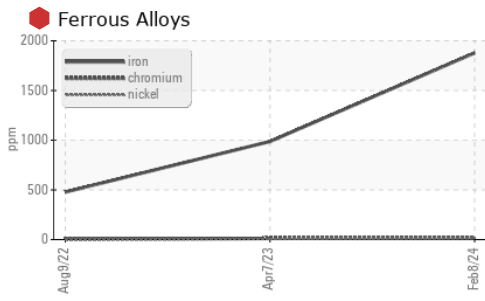
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	231	94	14
Potassium	ppm	ASTM D5185m	>20	32	13	14
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	5	5	13
Boron	ppm	ASTM D5185m		80	30	75
Barium	ppm	ASTM D5185m		48	21	76
Molybdenum	ppm	ASTM D5185m		4	2	1
Manganese	ppm	ASTM D5185m		18	12	8
Magnesium	ppm	ASTM D5185m		9	6	11
Calcium	ppm	ASTM D5185m		15	12	28
Phosphorus	ppm	ASTM D5185m		625	399	778
Zinc	ppm	ASTM D5185m		15	30	55
Sulfur	ppm	ASTM D5185m		13486	22140	21680
Visc @ 40°C	cSt	ASTM D445		134	134	132



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200009 **Received** : 13 Feb 2024
Lab Number : 06087642 **Tested** : 14 Feb 2024
Unique Number : 10875087 **Diagnosed** : 14 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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Certificate L2367
 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)