



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W63939]
 Machine Id
JOHN DEERE 770GP 1DW770GPEEF665757
 Component
Circle Gearbox
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (1 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: W63939)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203561	JR0133625	---
Sample Date		Client Info		09 Feb 2024	24 Jun 2022	---
Machine Age	hrs	Client Info		2000	1026	---
Oil Age	hrs	Client Info		2000	1026	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		N/A	None	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The aluminum level is abnormal. The copper level is abnormal. Moderate concentration of visible metal present.

PQ		ASTM D8184		25	22	---
Iron	ppm	ASTM D5185m	>200	63	31	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	2	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		▲ 195	▲ 124	---
Lead	ppm	ASTM D5185m		11	<1	---
Copper	ppm	ASTM D5185m		▲ 1130	▲ 880	---
Tin	ppm	ASTM D5185m		<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	▲ MODER	NONE	---

CONTAMINATION

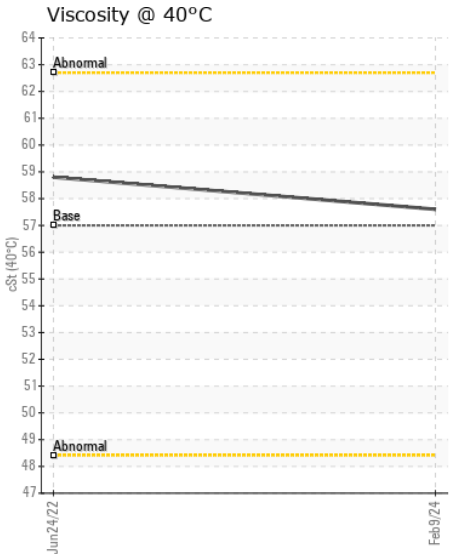
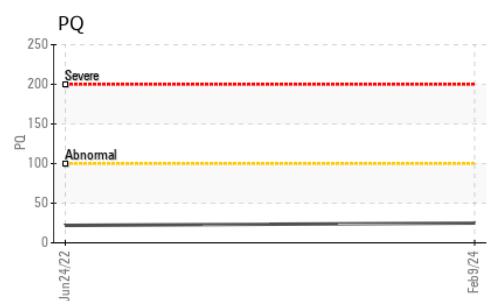
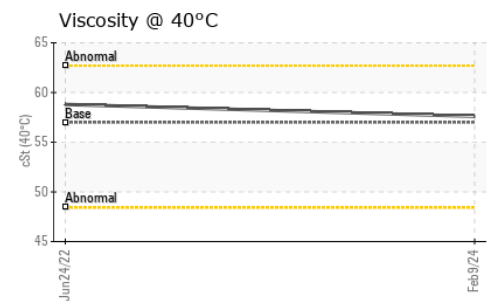
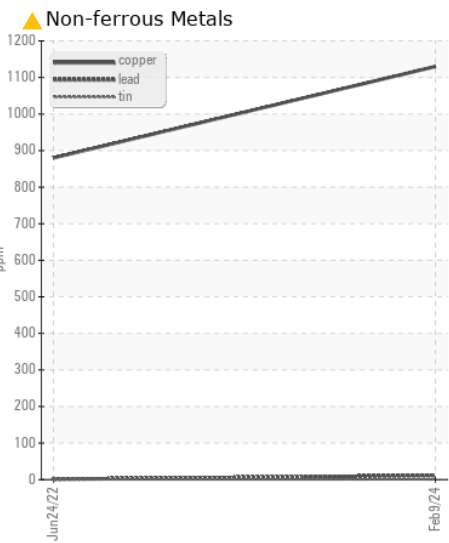
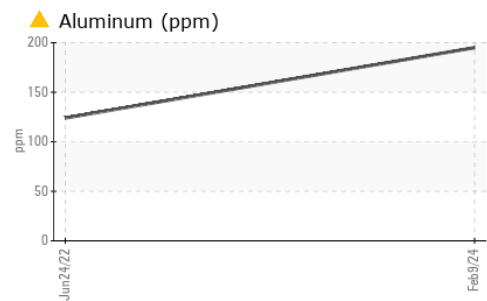
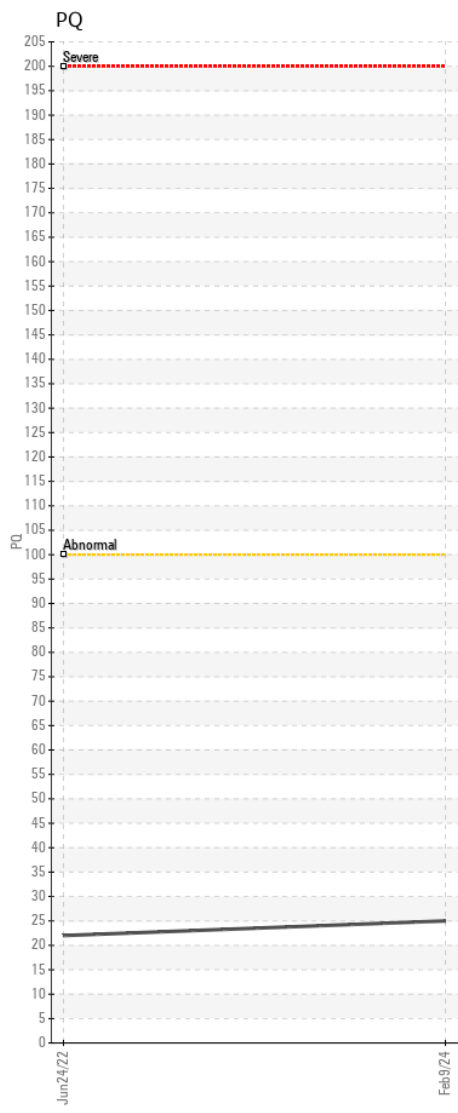
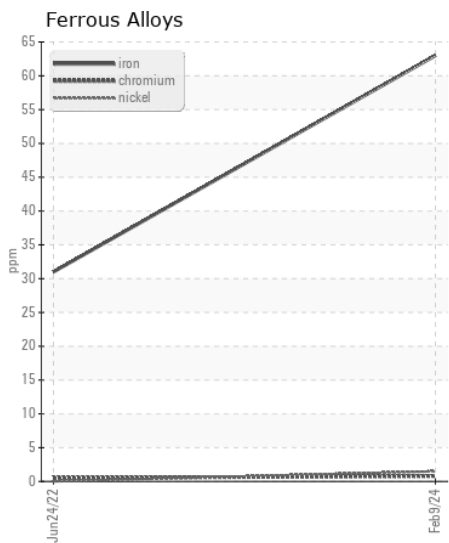
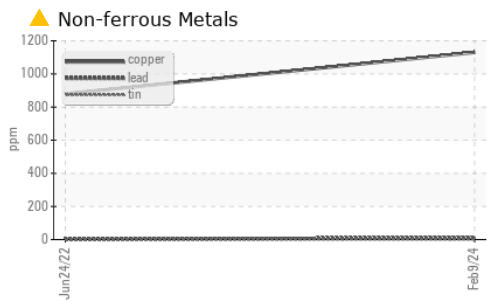
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		17	4	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	3	---
Boron	ppm	ASTM D5185m	6	1	3	---
Barium	ppm	ASTM D5185m	0	<1	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	<1	---
Manganese	ppm	ASTM D5185m		72	55	---
Magnesium	ppm	ASTM D5185m	145	85	93	---
Calcium	ppm	ASTM D5185m	3570	3174	3587	---
Phosphorus	ppm	ASTM D5185m	1290	885	1043	---
Zinc	ppm	ASTM D5185m	1640	1487	1454	---
Sulfur	ppm	ASTM D5185m		3377	4581	---
Visc @ 40°C	cSt	ASTM D445	57.0	57.6	58.8	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203561 **Received** : 14 Feb 2024
Lab Number : 06089047 **Tested** : 15 Feb 2024
Unique Number : 10876492 **Diagnosed** : 16 Feb 2024 - Jonathan Hester
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)