



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 470 P 1FF470PAJPF000355
 Component
Right Swing Drive Gear Case
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0220474	JR0192988	---
Sample Date		Client Info		15 Jun 2024	30 Nov 2023	---
Machine Age	hrs	Client Info		1522	468	---
Oil Age	hrs	Client Info		468	468	---
Filter Age	hrs	Client Info		0	468	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		16	31	---
Iron	ppm	ASTM D5185m	>200	36	53	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		2	2	---
Lead	ppm	ASTM D5185m		0	<1	---
Copper	ppm	ASTM D5185m		<1	<1	---
Tin	ppm	ASTM D5185m		0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

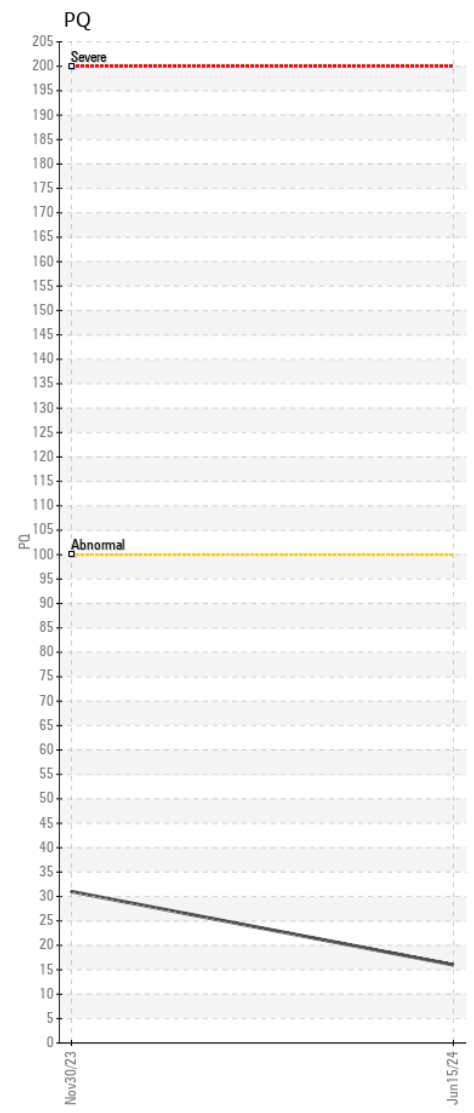
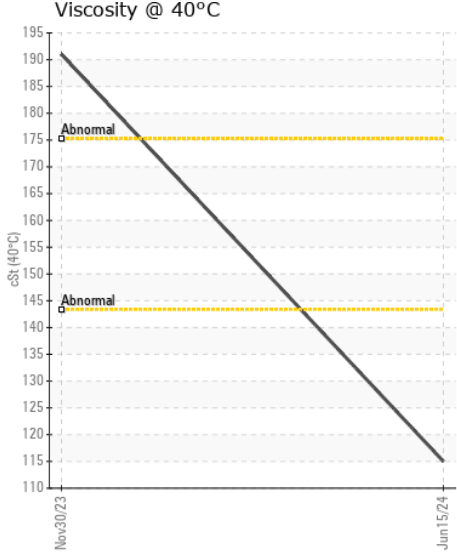
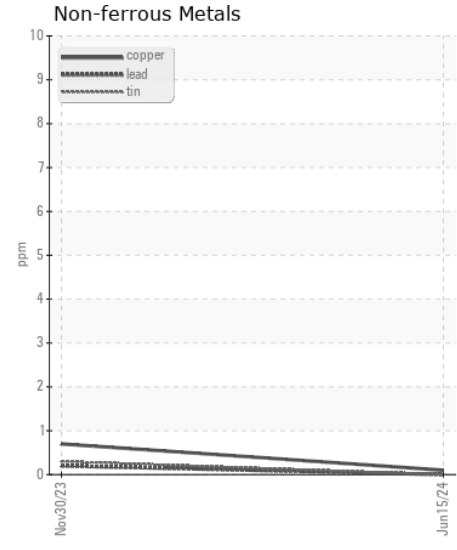
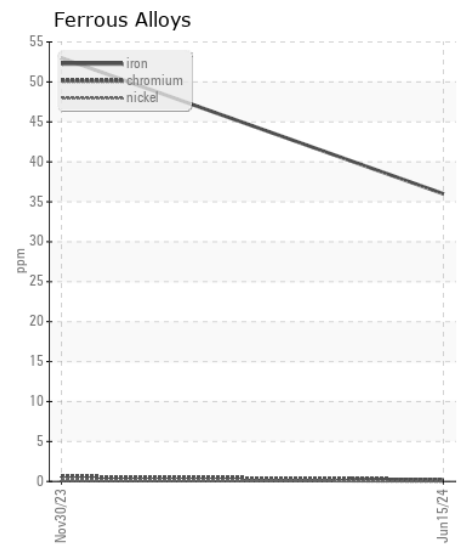
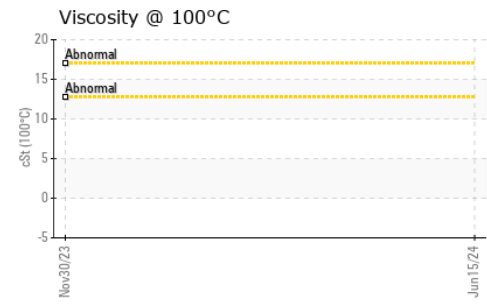
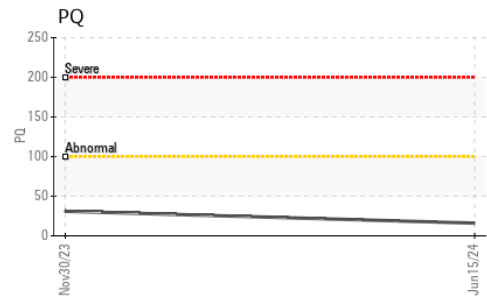
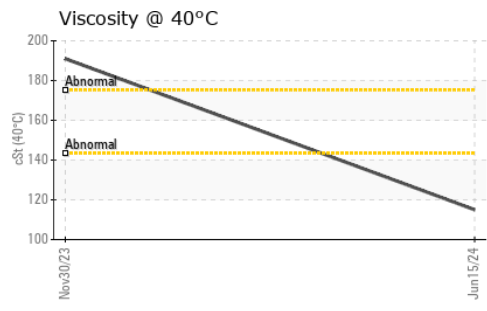
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m		10	16	---
Potassium	ppm	ASTM D5185m	>20	1	3	---
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		0	0	---
Boron	ppm	ASTM D5185m		18	88	---
Barium	ppm	ASTM D5185m		0	11	---
Molybdenum	ppm	ASTM D5185m		0	<1	---
Manganese	ppm	ASTM D5185m		0	2	---
Magnesium	ppm	ASTM D5185m		4	<1	---
Calcium	ppm	ASTM D5185m		57	19	---
Phosphorus	ppm	ASTM D5185m		345	527	---
Zinc	ppm	ASTM D5185m		17	0	---
Sulfur	ppm	ASTM D5185m		16237	16538	---
Visc @ 40°C	cSt	ASTM D445		115	191	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0220474 **Received** : 18 Jun 2024
Lab Number : 06213791 **Tested** : 20 Jun 2024
Unique Number : 11086655 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: FT-IR, KV100, PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
 Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com
 T: (704)597-0211
 F: (704)596-6198

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)