



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE CP690 1N0C690PHK4075724
 Component
Rear Right Final Drive
 Fluid
GEAR OIL LS 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0216842	JR0172491	---
Sample Date		Client Info		08 Jul 2024	29 Jul 2023	---
Machine Age	hrs	Client Info		1264	1058	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	84	110	---
Iron	ppm	ASTM D5185m	>750	184	223	---
Chromium	ppm	ASTM D5185m	>9	2	2	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		1	2	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>40	1	<1	---
Lead	ppm	ASTM D5185m	>15	6	5	---
Copper	ppm	ASTM D5185m	>40	19	20	---
Tin	ppm	ASTM D5185m	>10	1	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

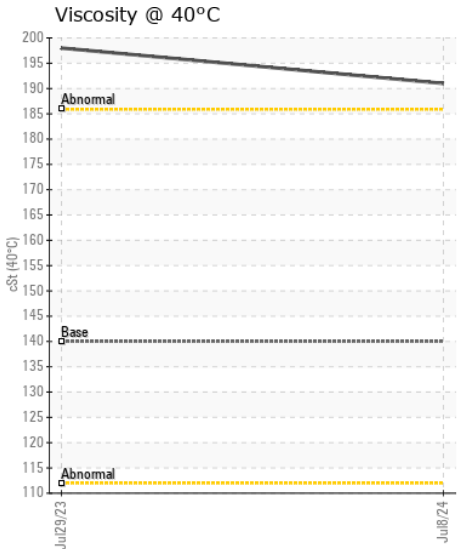
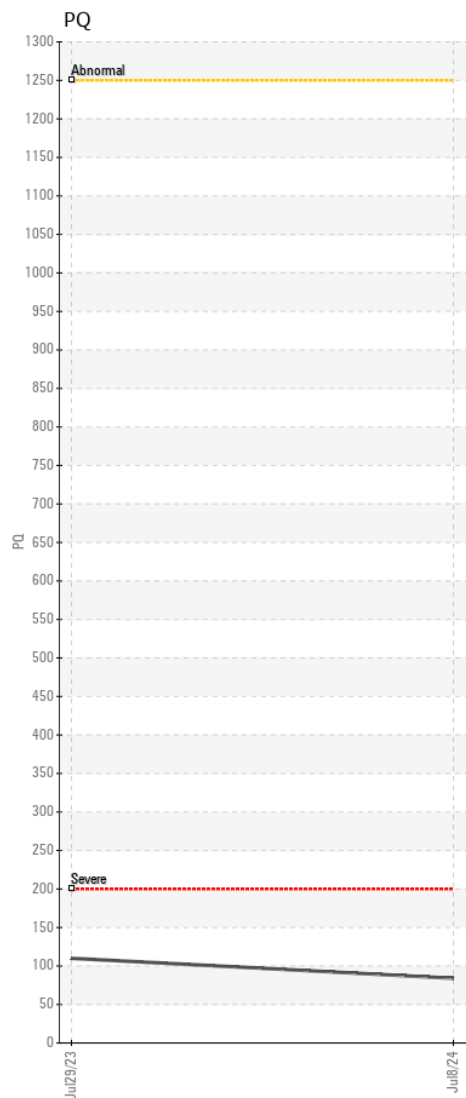
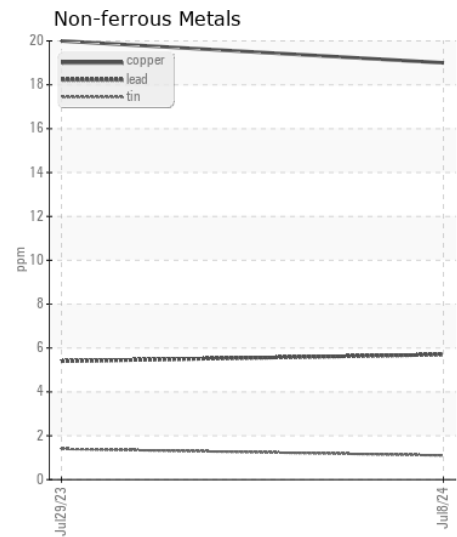
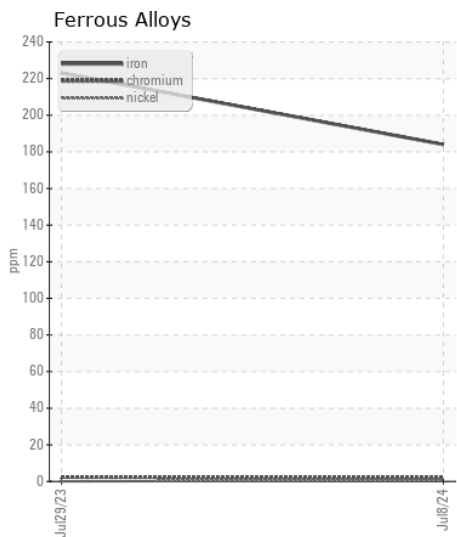
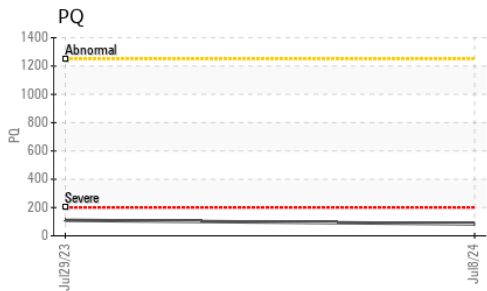
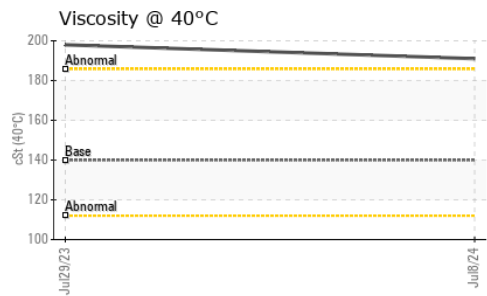
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	46	46	---
Potassium	ppm	ASTM D5185m	>20	9	9	---
Water		WC Method	>0.075	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	>0.075	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	7	3	---
Boron	ppm	ASTM D5185m	150	0	2	---
Barium	ppm	ASTM D5185m		8	13	---
Molybdenum	ppm	ASTM D5185m		<1	2	---
Manganese	ppm	ASTM D5185m		3	3	---
Magnesium	ppm	ASTM D5185m	10	5	3	---
Calcium	ppm	ASTM D5185m	70	571	607	---
Phosphorus	ppm	ASTM D5185m	2000	274	279	---
Zinc	ppm	ASTM D5185m	50	30	33	---
Sulfur	ppm	ASTM D5185m	20000	22254	21273	---
Visc @ 40°C	cSt	ASTM D445	140	191	198	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0216842 **Received** : 08 Jul 2024
Lab Number : 06230467 **Tested** : 10 Jul 2024
Unique Number : 11113960 **Diagnosed** : 10 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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