



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE CP690 1N0C690PHK4075724

Component
Front Left Final Drive
Fluid
{not provided} (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

The chromium level is abnormal. All other metal levels are typical for a new component breaking in.

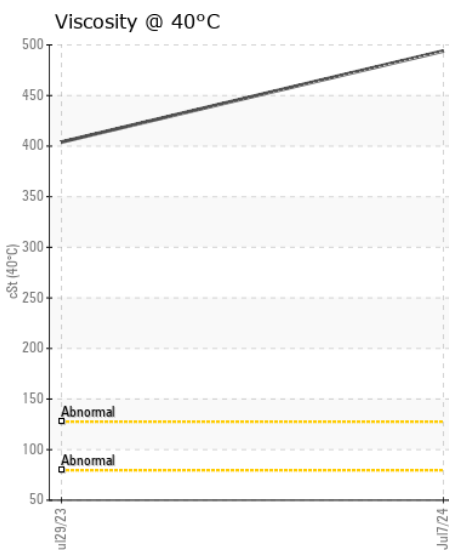
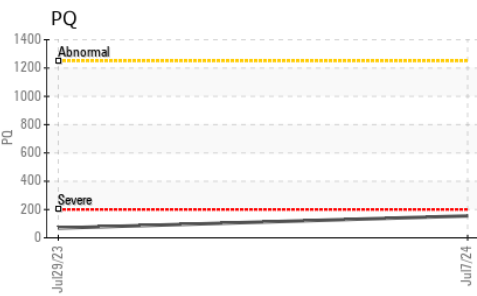
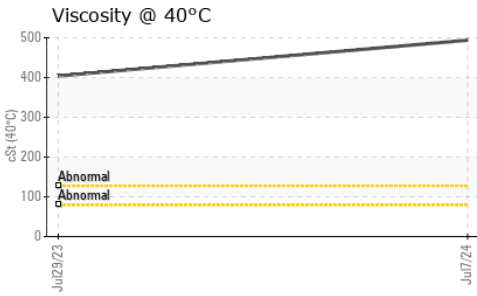
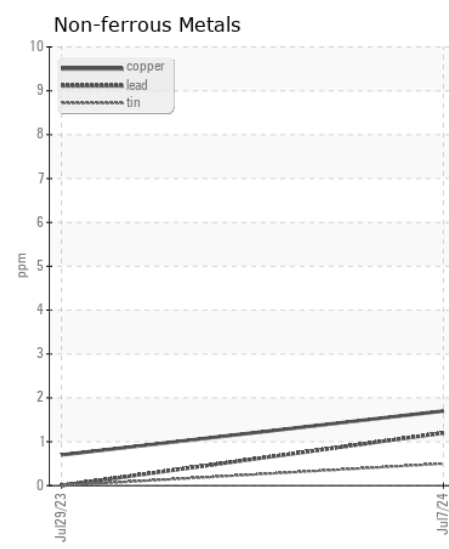
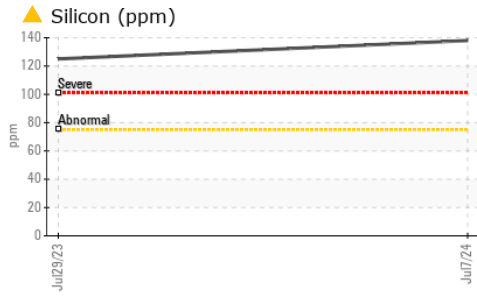
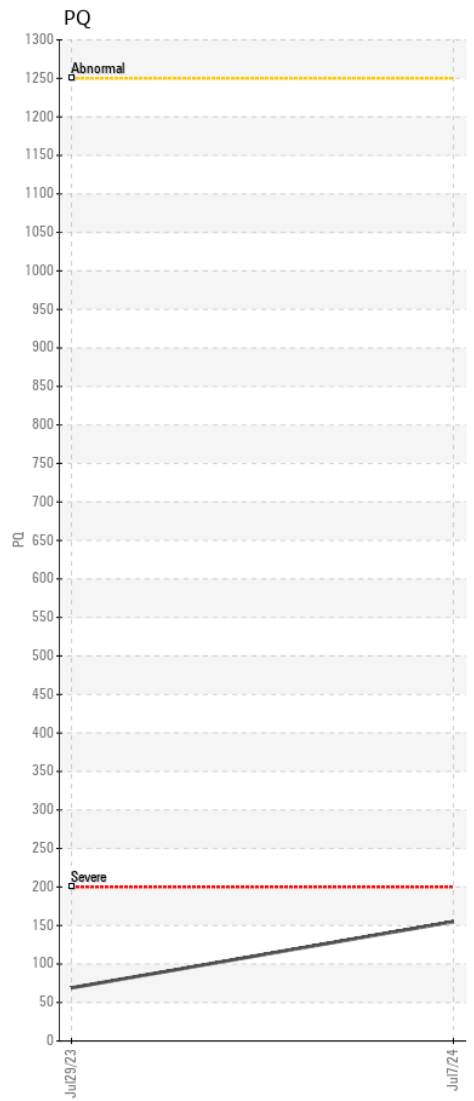
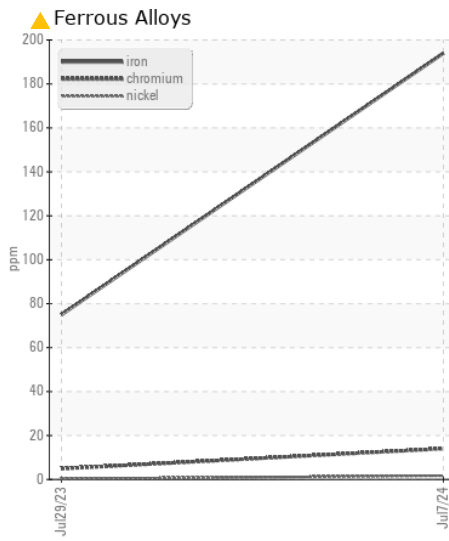
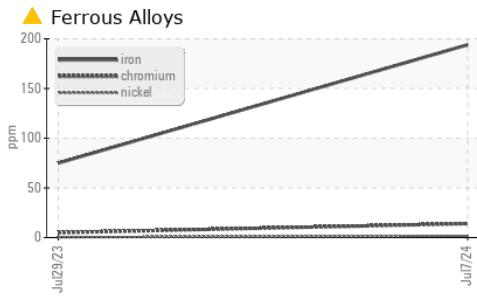
CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0216809	JR0172489	---
Sample Date		Client Info		07 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				ABNORMAL	ABNORMAL	---
PQ		ASTM D8184	>1250	155	69	---
Iron	ppm	ASTM D5185m	>750	194	75	---
Chromium	ppm	ASTM D5185m	>9	▲ 14	5	---
Nickel	ppm	ASTM D5185m	>10	2	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>40	6	0	---
Lead	ppm	ASTM D5185m	>15	1	0	---
Copper	ppm	ASTM D5185m	>40	2	<1	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 138	▲ 125	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
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	---
Sodium	ppm	ASTM D5185m	>51	3	0	---
Boron	ppm	ASTM D5185m		0	1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		13	6	---
Magnesium	ppm	ASTM D5185m		8	3	---
Calcium	ppm	ASTM D5185m		513	206	---
Phosphorus	ppm	ASTM D5185m		338	270	---
Zinc	ppm	ASTM D5185m		42	18	---
Sulfur	ppm	ASTM D5185m		28298	24745	---
Visc @ 40°C	cSt	ASTM D445		494	404	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0216809 **Received** : 08 Jul 2024
Lab Number : 06230446 **Tested** : 10 Jul 2024
Unique Number : 11113939 **Diagnosed** : 10 Jul 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)