



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
Store 1 - Cowen [142220]
 Machine Id
JOHN DEERE 85G 1FF085GXVJJ019833
 Component
Right Propel Gearbox
 Fluid
JOHN DEERE GL-5 80W90 (1 QTS)

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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0043520	LEC0019369	---
Sample Date		Client Info		16 Aug 2023	27 Apr 2021	---
Machine Age	hrs	Client Info		1058	339	---
Oil Age	hrs	Client Info		719	339	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		124	445	---
Iron	ppm	ASTM D5185m	>1250	848	1097	---
Chromium	ppm	ASTM D5185m	>10	12	16	---
Nickel	ppm	ASTM D5185m	>10	3	3	---
Titanium	ppm	ASTM D5185m		6	8	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m		▲ 44	31	---
Lead	ppm	ASTM D5185m		<1	0	---
Copper	ppm	ASTM D5185m		3	3	---
Tin	ppm	ASTM D5185m		<1	0	---
Vanadium	ppm	ASTM D5185m		<1	1	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

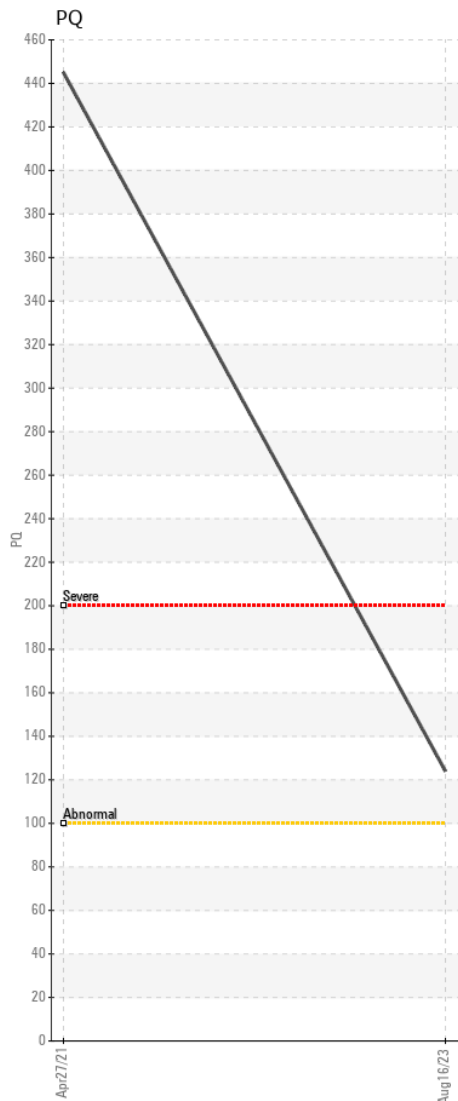
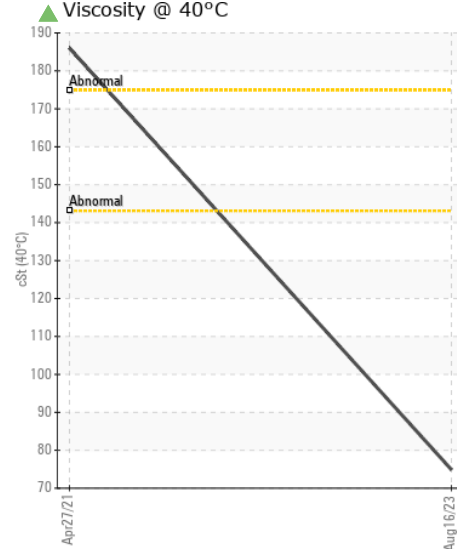
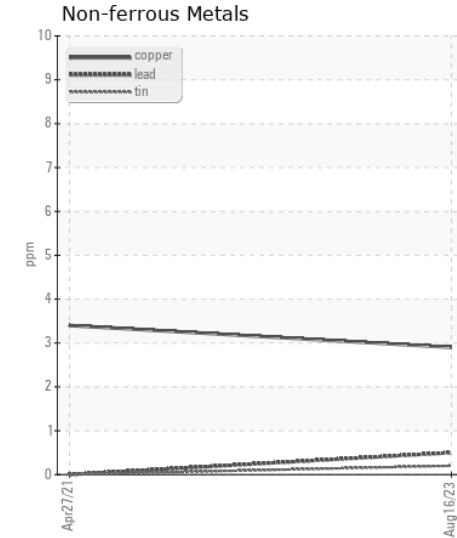
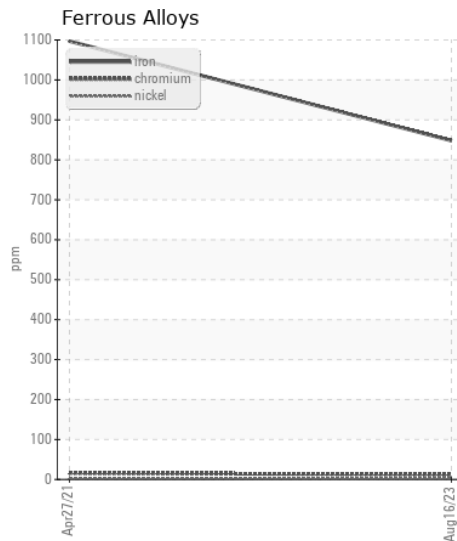
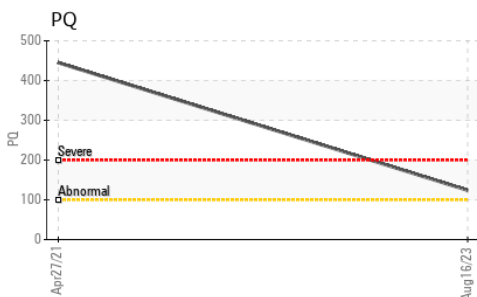
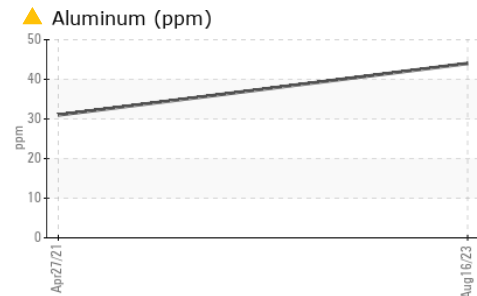
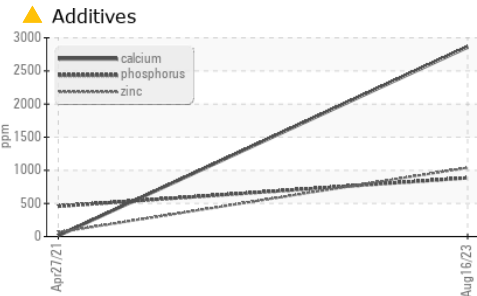
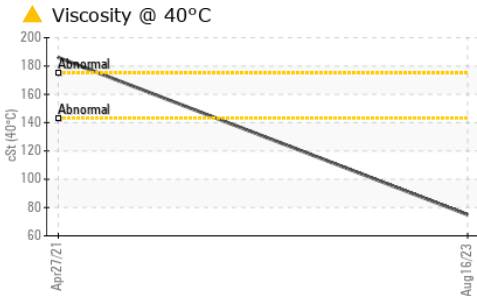
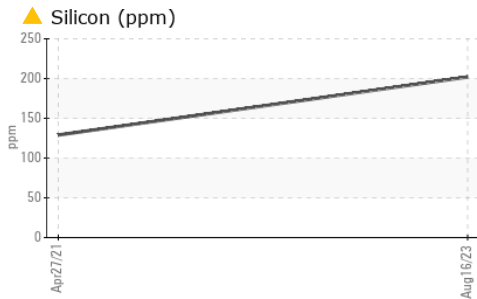
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 202	▲ 129	---
Potassium	ppm	ASTM D5185m	>20	11	19	---
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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	2	---
Boron	ppm	ASTM D5185m		▲ 30	48	---
Barium	ppm	ASTM D5185m		0	19	---
Molybdenum	ppm	ASTM D5185m		3	0	---
Manganese	ppm	ASTM D5185m		11	14	---
Magnesium	ppm	ASTM D5185m		▲ 96	3	---
Calcium	ppm	ASTM D5185m		▲ 2861	14	---
Phosphorus	ppm	ASTM D5185m		▲ 886	458	---
Zinc	ppm	ASTM D5185m		▲ 1038	64	---
Sulfur	ppm	ASTM D5185m		▲ 5815	14377	---
Visc @ 40°C	cSt	ASTM D445		▲ 74.9	186	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0043520 **Received** : 18 Aug 2023
Lab Number : 05928972 **Tested** : 22 Aug 2023
Unique Number : 10608919 **Diagnosed** : 22 Aug 2023 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)