



# OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ATTENTION</b>

Area  
**Store 1 - Cowen [142220]**  
 Machine Id  
**JOHN DEERE 85G 1FF085GXVJJ019833**  
 Component  
**Left 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		<b>LEC0043519</b>	LEC0019368	---
Sample Date		Client Info		<b>16 Aug 2023</b>	27 Apr 2021	---
Machine Age	hrs	Client Info		<b>1058</b>	339	---
Oil Age	hrs	Client Info		<b>719</b>	339	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Not Changed</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

## WEAR

Gear wear is indicated.

PQ		ASTM D8184		<b>486</b>	398	---
Iron	ppm	ASTM D5185m	>1250	<b>▲ 1563</b>	904	---
Chromium	ppm	ASTM D5185m	>10	<b>▲ 21</b>	11	---
Nickel	ppm	ASTM D5185m	>10	<b>7</b>	4	---
Titanium	ppm	ASTM D5185m		<b>7</b>	4	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m		<b>▲ 45</b>	18	---
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m		<b>6</b>	3	---
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
White Metal	scalar	*Visual	NONE	<b>HEAVY</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

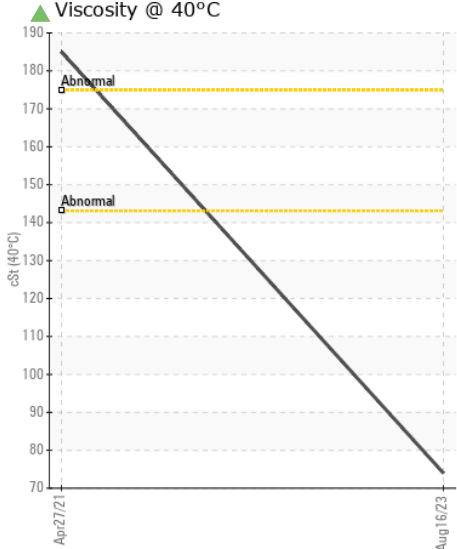
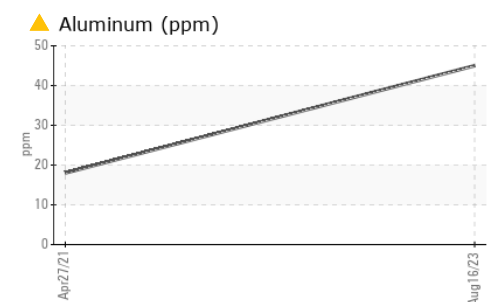
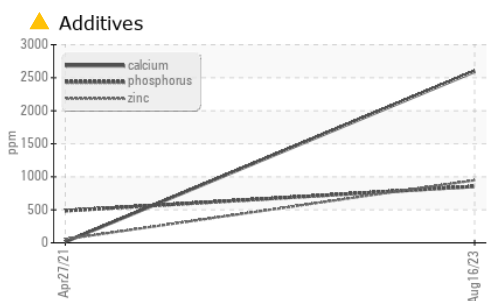
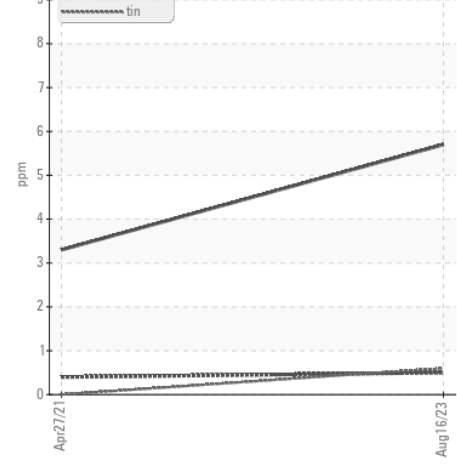
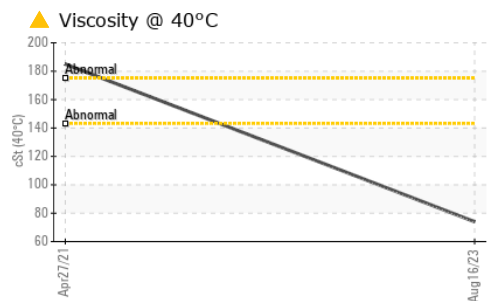
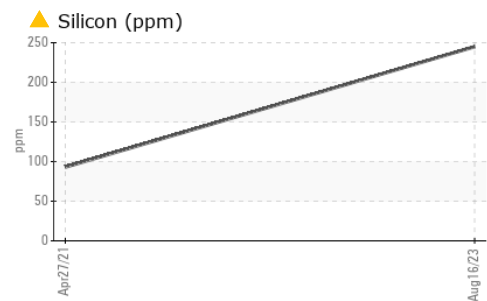
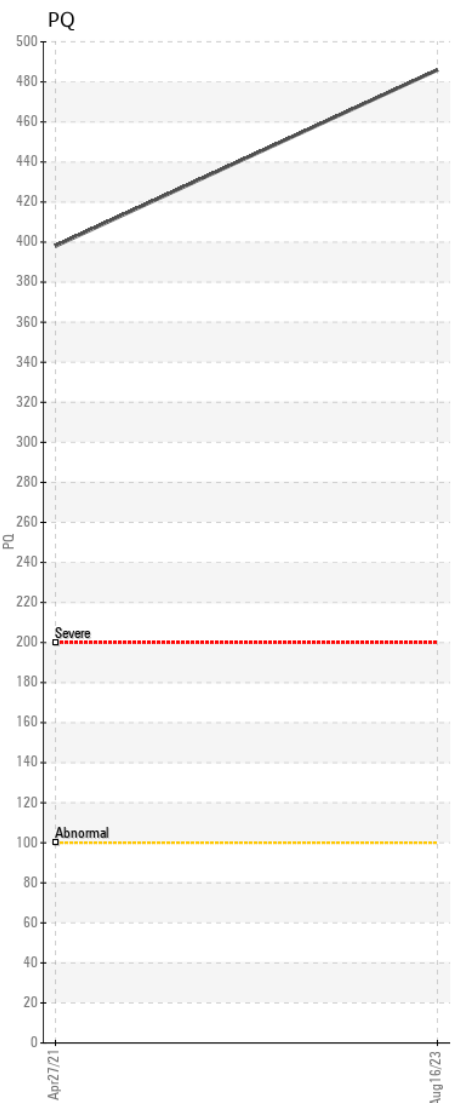
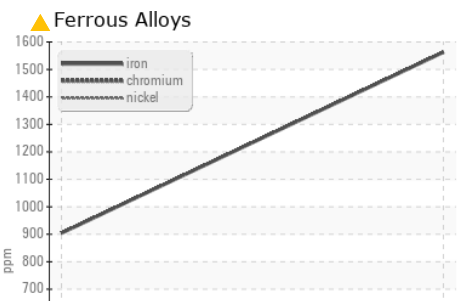
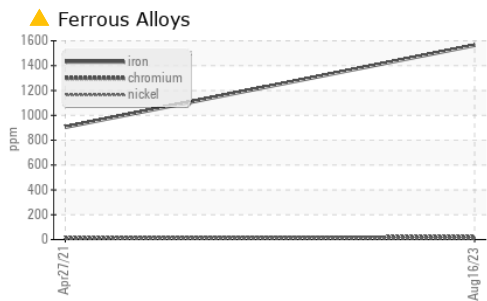
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>▲ 245</b>	<b>▲ 93</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	2	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>2</b>	3	---
Boron	ppm	ASTM D5185m		<b>48</b>	50	---
Barium	ppm	ASTM D5185m		<b>0</b>	20	---
Molybdenum	ppm	ASTM D5185m		<b>3</b>	0	---
Manganese	ppm	ASTM D5185m		<b>17</b>	11	---
Magnesium	ppm	ASTM D5185m		<b>▲ 88</b>	2	---
Calcium	ppm	ASTM D5185m		<b>▲ 2596</b>	14	---
Phosphorus	ppm	ASTM D5185m		<b>854</b>	485	---
Zinc	ppm	ASTM D5185m		<b>▲ 947</b>	54	---
Sulfur	ppm	ASTM D5185m		<b>▲ 7388</b>	14096	---
Visc @ 40°C	cSt	ASTM D445		<b>▲ 74.0</b>	185	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0043519 **Received** : 18 Aug 2023  
**Lab Number** : 05928973 **Tested** : 22 Aug 2023  
**Unique Number** : 10608920 **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)