



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**JOHN DEERE 38-20**  
 Component  
**Rear Differential**  
 Fluid  
**PETRO CANADA DURATRAN (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0067892</b>	PC0075727	---
Sample Date		Client Info		<b>05 Feb 2024</b>	20 Jun 2023	---
Machine Age	hrs	Client Info		<b>5265</b>	4343	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>20</b>	66	---
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	<1	---
Lead	ppm	ASTM D5185(m)	>25	<b>29</b>	52	---
Copper	ppm	ASTM D5185(m)	>100	<b>8</b>	10	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

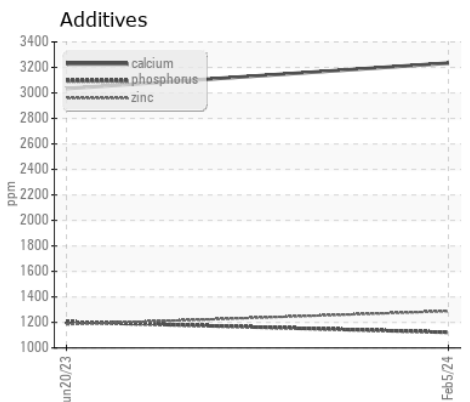
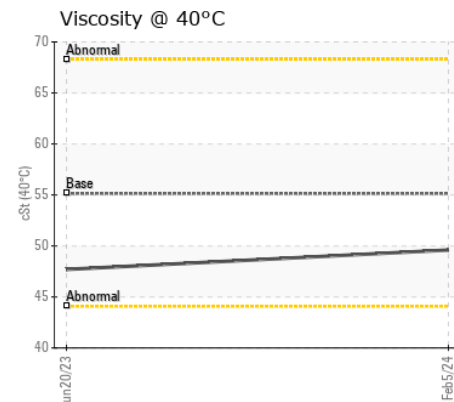
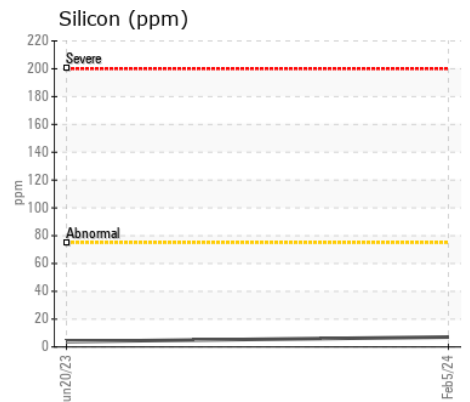
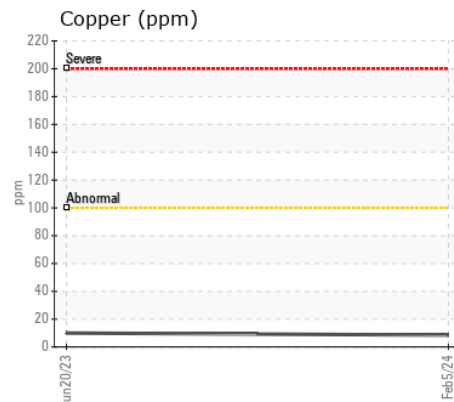
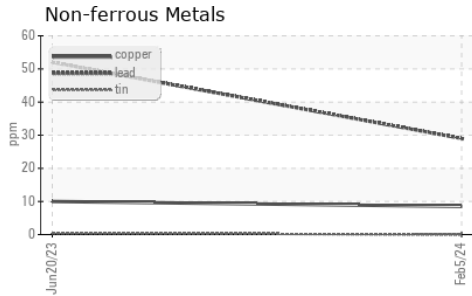
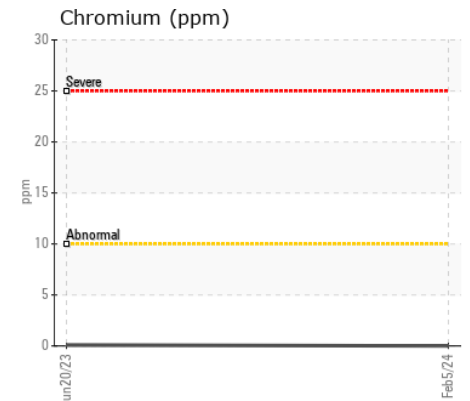
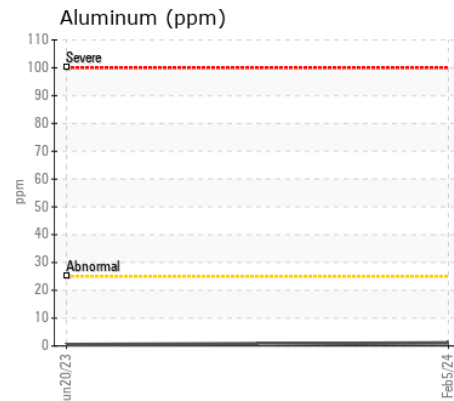
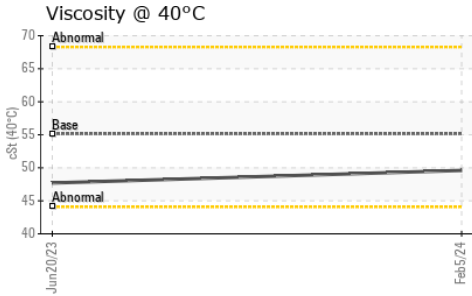
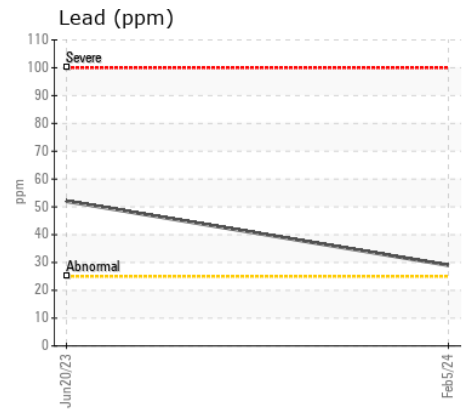
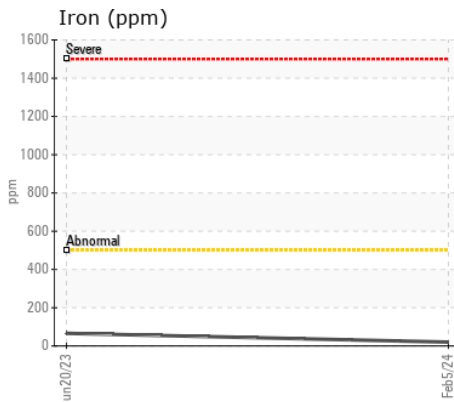
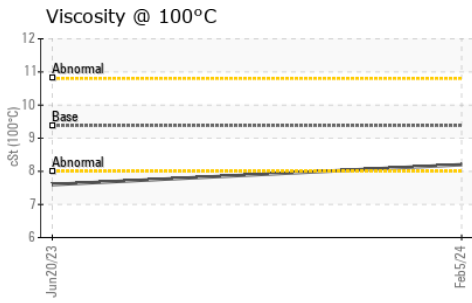
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>7</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>LIGHT</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>LIGHT</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>2</b>	4	---
Boron	ppm	ASTM D5185(m)	110	<b>70</b>	3	---
Barium	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	1	---
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	3	---
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	1	---
Magnesium	ppm	ASTM D5185(m)	13	<b>12</b>	30	---
Calcium	ppm	ASTM D5185(m)	3610	<b>3234</b>	3034	---
Phosphorus	ppm	ASTM D5185(m)	1192	<b>1122</b>	1204	---
Zinc	ppm	ASTM D5185(m)	1455	<b>1289</b>	1185	---
Sulfur	ppm	ASTM D5185(m)	2641	<b>3304</b>	3524	---
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	<b>49.6</b>	47.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	<b>8.2</b>	7.6	---
Viscosity Index (VI)	Scale	ASTM D2270*	153	<b>138</b>	124	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **TRUCK AND EQUIPMENT SOLUTION**  
**Sample No.** : PC0067892 **Received** : 20 Feb 2024 **2 BERTRAM INDUSTRIAL PKWY.**  
**Lab Number** : 02616772 **Tested** : 23 Feb 2024 **MIDHURST, ON**  
**Unique Number** : 5733882 **Diagnosed** : 23 Feb 2024 - Kevin Marson **CA L9X 1L2**  
**Test Package** : MOB 1 ( Additional Tests: Bottom, BottomAnalysis, FILTERPATCH, KV100, VI ) **Contact: John Irwin**  
**Tested at external lab.** **irwin@arnottgroup.com**

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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