

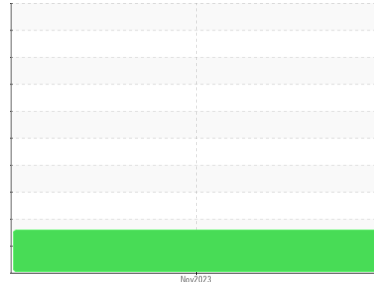
# OIL ANALYSIS REPORT

Sample Rating Trend

**DIRT**



Machine Id  
**JOHN DEERE 824K 2221203**  
Component  
**Front Differential**  
Fluid  
**PETRO CANADA DURATRAN (--- GAL)**



## DIAGNOSIS

### ▲ 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. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a moderate concentration of dirt present in the oil.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0073050</b>	---	---
Sample Date	Client Info		<b>23 Nov 2023</b>	---	---
Machine Age	hrs	Client Info	<b>15372</b>	---	---
Oil Age	hrs	Client Info	<b>2000</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >1501	<b>542</b>	---	---
Chromium	ppm	ASTM D5185(m) >11	<b>2</b>	---	---
Nickel	ppm	ASTM D5185(m) >10	<b>3</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >21	<b>5</b>	---	---
Lead	ppm	ASTM D5185(m) >51	<b>28</b>	---	---
Copper	ppm	ASTM D5185(m) >101	<b>33</b>	---	---
Tin	ppm	ASTM D5185(m) >10	<b>2</b>	---	---
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

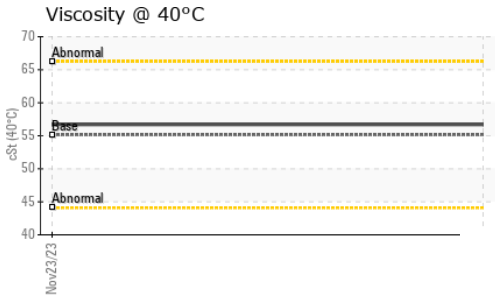
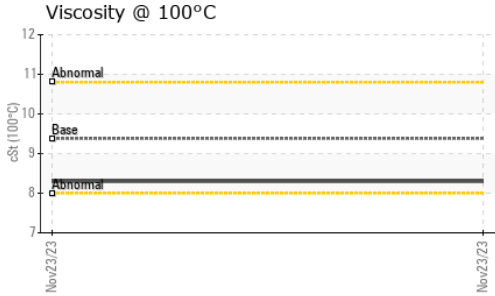
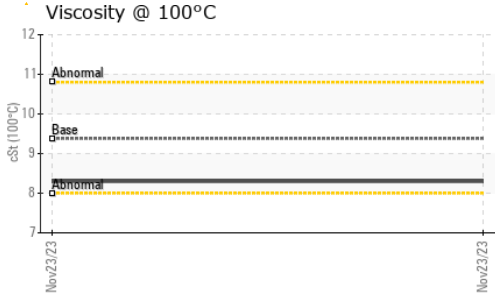
## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 110	<b>3</b>	---	---
Barium	ppm	ASTM D5185(m) 0.0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 0.0	<b>2</b>	---	---
Manganese	ppm	ASTM D5185(m) 1	<b>4</b>	---	---
Magnesium	ppm	ASTM D5185(m) 13	<b>47</b>	---	---
Calcium	ppm	ASTM D5185(m) 3610	<b>3102</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1192	<b>1167</b>	---	---
Zinc	ppm	ASTM D5185(m) 1455	<b>1162</b>	---	---
Sulfur	ppm	ASTM D5185(m) 2641	<b>3201</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >31	<b>▲ 48</b>	---	---
Sodium	ppm	ASTM D5185(m) >51	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	---	---

# OIL ANALYSIS REPORT



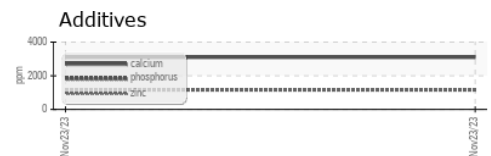
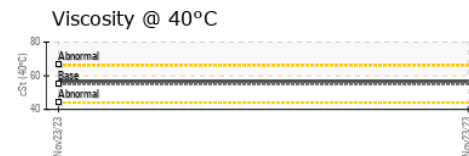
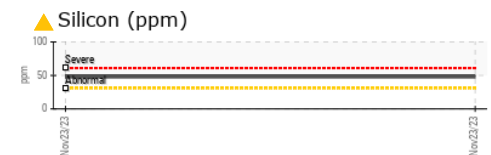
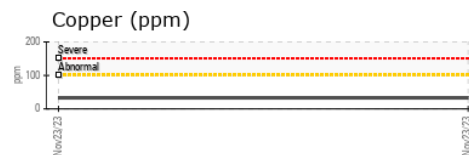
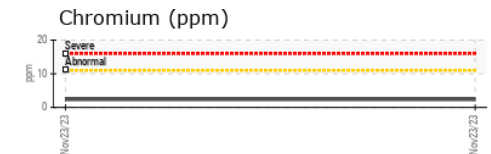
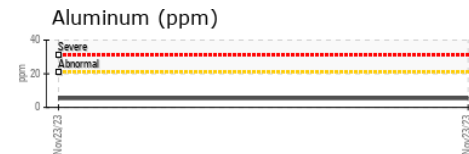
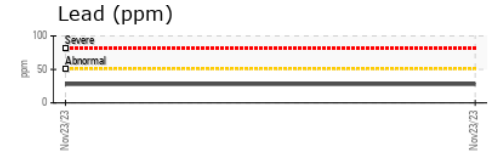
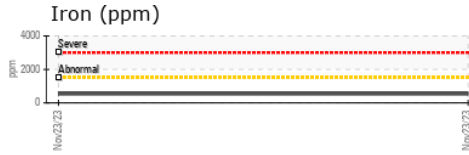
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D279(m)	55.14	56.7	---	---
Visc @ 100°C	cSt	ASTM D279(m)	9.38	8.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	153	117	---	---

### SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0073050 **Received** : 29 Nov 2023  
**Lab Number** : 02599660 **Diagnosed** : 30 Nov 2023  
**Unique Number** : 5684740 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

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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