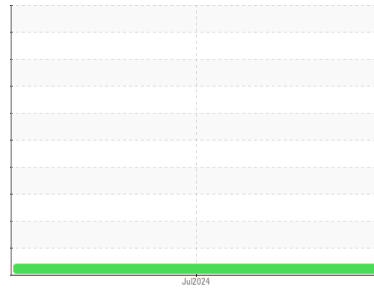




# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area

**MINING**

Machine Id

**ME-586 JOHN DEERE 944K 1DW944KXPNL703686**

Component

**Rear Right Final Drive**

Fluid

**SHELL Spirax S4 CX 30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within SAE 10W range, advise investigate. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0946241</b>	---	---
Sample Date	Client Info		<b>02 Jul 2024</b>	---	---
Machine Age	hrs	Client Info	<b>3191</b>	---	---
Oil Age	hrs	Client Info	<b>3191</b>	---	---
Oil Changed	Client Info		<b>Not Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.075	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >750	<b>10</b>	---	---
Chromium	ppm	ASTM D5185(m) >9	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m) >10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m) >40	<b>28</b>	---	---
Tin	ppm	ASTM D5185(m) >10	<b>0</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

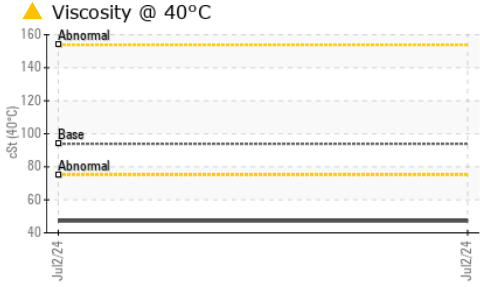
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>2</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>48</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>3226</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>1105</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>1222</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>3243</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >75	<b>21</b>	---	---
Sodium	ppm	ASTM D5185(m) >51	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---



# OIL ANALYSIS REPORT



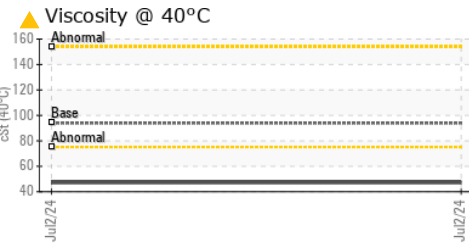
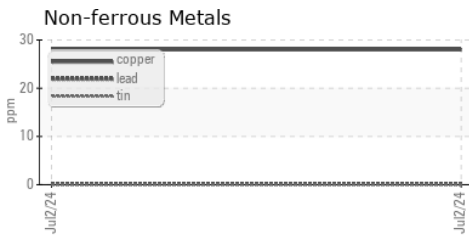
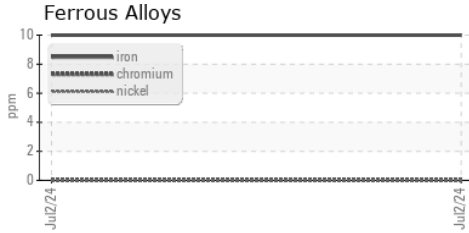
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.075	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	93.9 ▲ 47.2	---	---

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0946241      **Received** : 08 Jul 2024  
**Lab Number** : 02646352      **Tested** : 08 Jul 2024  
**Unique Number** : 5811904      **Diagnosed** : 09 Jul 2024 - Kevin Marson  
**Test Package** : CONST

**Covia Canada Ltd.**  
 260 Unimin Road, County Rd. #46  
 Havelock, ON  
 CA K0L 1Z0  
 Contact: Dan Lyon  
 dan.lyon@coviacorp.com  
 T: (705)632-8904  
 F:

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.