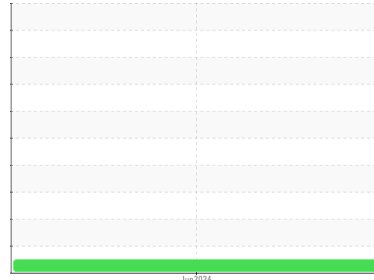




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**MINING**

Machine Id

**ME-588 JOHN DEERE 944K 1DW944KXCNL703692**

Component

**Diesel Engine**

Fluid

**SHELL 10W30 (--- 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

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>WC0946264</b>	---	---
Sample Date	Client Info			<b>21 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>2184</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>2.1		<b>&lt;1.0</b>	---	---
Water	WC Method	>0.21		<b>NEG</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	<b>36</b>	---	---
Chromium	ppm	ASTM D5185(m)	>11	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>31	<b>4</b>	---	---
Lead	ppm	ASTM D5185(m)	>26	<b>21</b>	---	---
Copper	ppm	ASTM D5185(m)	>26	<b>17</b>	---	---
Tin	ppm	ASTM D5185(m)	>4	<b>4</b>	---	---
Antimony	ppm	ASTM D5185(m)		<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>	---	---

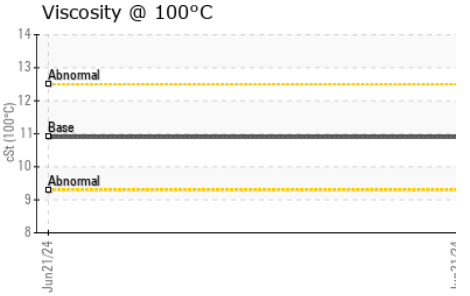
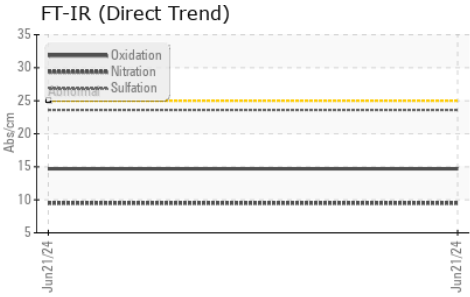
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>5</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>17</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	470	<b>127</b>	---	---
Calcium	ppm	ASTM D5185(m)	1150	<b>2117</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	94	<b>851</b>	---	---
Zinc	ppm	ASTM D5185(m)	1030	<b>1004</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2709</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	<b>4</b>	---	---
Sodium	ppm	ASTM D5185(m)	>31	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.6</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.5</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>23.6</b>	---	---

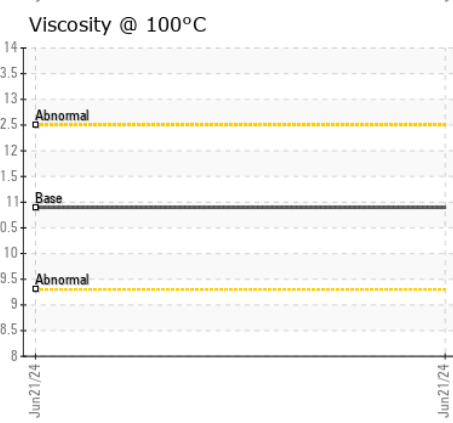
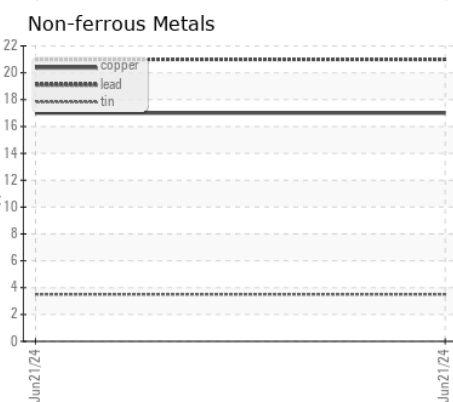
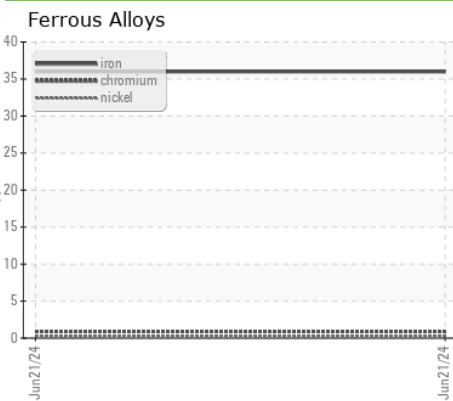


# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>14.7</b>	---	---
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.90	<b>10.9</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0946264      **Received** : 05 Jul 2024  
**Lab Number** : **02645867**      **Tested** : 05 Jul 2024  
**Unique Number** : 5811419      **Diagnosed** : 05 Jul 2024 - Wes Davis  
**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.