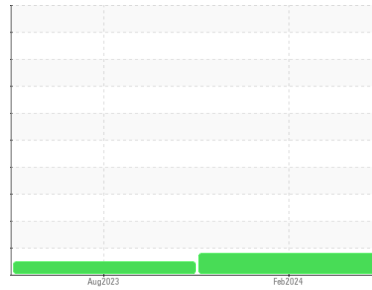




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id  
**KUBOTA R540 WL0462**  
 Component  
**Diesel Engine**  
 Fluid  
**KUBOTA 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected 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>GFL0107456</b>	GFL0082100	---
Sample Date	Client Info	<b>20 Feb 2024</b>	11 Aug 2023	---
Machine Age	hrs	<b>2455</b>	1547	---
Oil Age	hrs	<b>800</b>	0	---
Oil Changed	Client Info	<b>Changed</b>	Changed	---
Sample Status		<b>MARGINAL</b>	NORMAL	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	---
Glycol	WC Method	<b>NEG</b>	NEG	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	<b>21</b>	4	---
Chromium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	---
Nickel	ppm ASTM D5185(m) >4	<b>&lt;1</b>	0	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm ASTM D5185(m) >3	<b>0</b>	0	---
Aluminum	ppm ASTM D5185(m) >20	<b>2</b>	2	---
Lead	ppm ASTM D5185(m) >40	<b>0</b>	0	---
Copper	ppm ASTM D5185(m) >330	<b>3</b>	2	---
Tin	ppm ASTM D5185(m) >15	<b>0</b>	0	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>87</b>	61	---
Barium	ppm ASTM D5185(m)	<b>0</b>	0	---
Molybdenum	ppm ASTM D5185(m)	<b>74</b>	87	---
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	---
Magnesium	ppm ASTM D5185(m)	<b>505</b>	27	---
Calcium	ppm ASTM D5185(m)	<b>1090</b>	2144	---
Phosphorus	ppm ASTM D5185(m)	<b>744</b>	1098	---
Zinc	ppm ASTM D5185(m)	<b>833</b>	1182	---
Sulfur	ppm ASTM D5185(m)	<b>2694</b>	3260	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---

## CONTAMINANTS

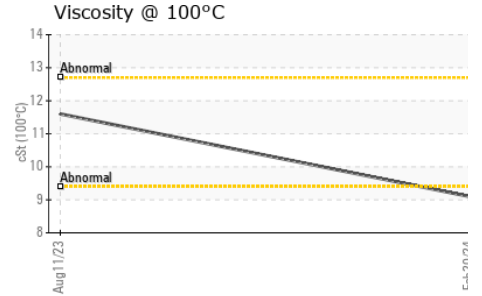
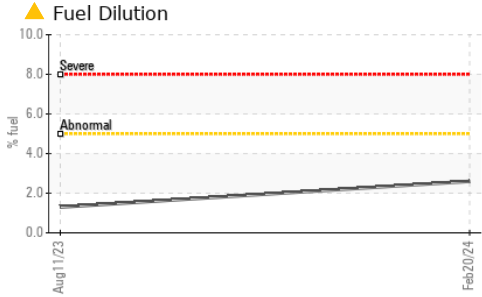
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>5</b>	4	---
Sodium	ppm ASTM D5185(m)	<b>2</b>	2	---
Potassium	ppm ASTM D5185(m) >20	<b>3</b>	<1	---
Fuel	% ASTM D7593* >5	<b>▲ 2.6</b>	1.3	---

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0.3</b>	0	---
Nitration	Abs/cm ASTM D7624* >20	<b>7.5</b>	8.3	---
Sulfation	Abs/.1mm ASTM D7415* >30	<b>18.8</b>	19.2	---



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	>25	13.7	---

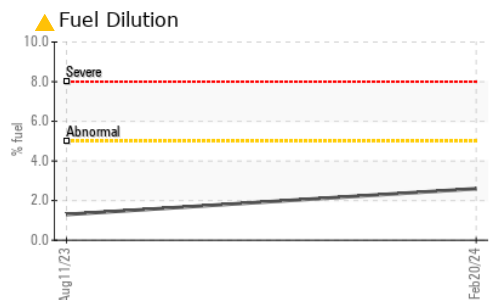
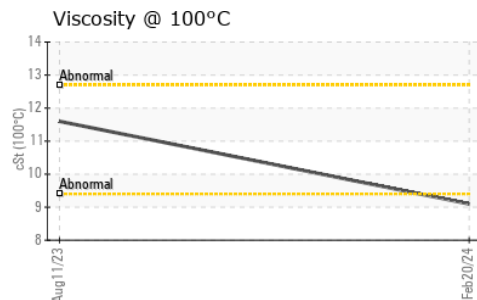
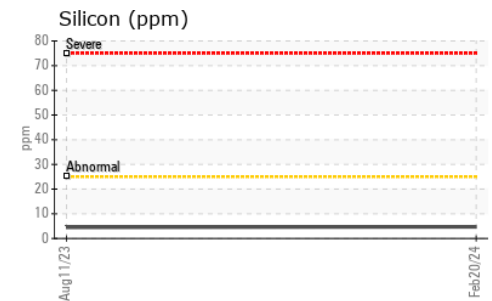
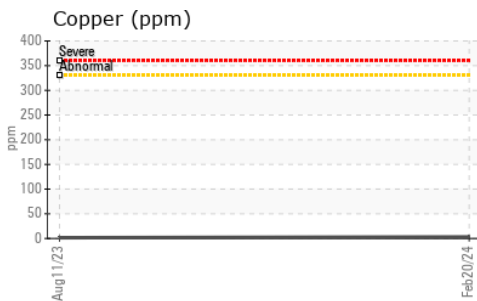
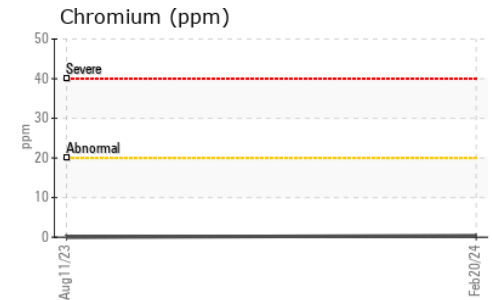
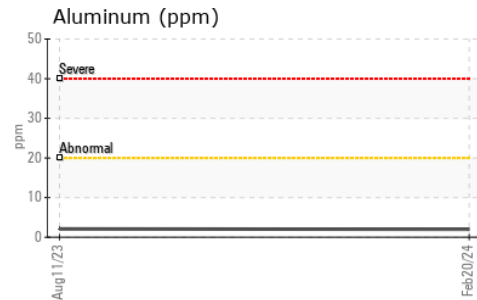
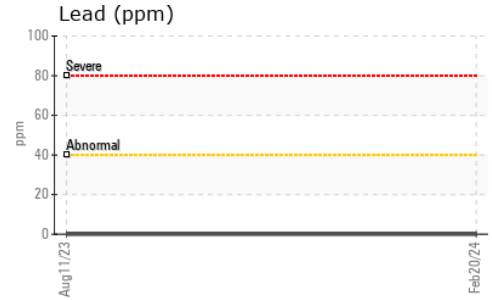
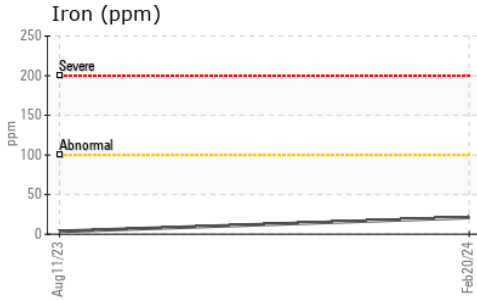
### VISUAL

method	limit/base	current	history1	history2
Emulsified Water	scalar Visual*	>0.2	NEG	---
Free Water	scalar Visual*	NEG	NEG	---

### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 100°C	cSt ASTM D7279(m)	9.1	11.6	---

### GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107456 **Received** : 13 Mar 2024  
**Lab Number** : 02621671 **Tested** : 14 Mar 2024  
**Unique Number** : 5746790 **Diagnosed** : 14 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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.

**GFL Environmental - 527**  
 740 Pine Street South  
 Timmins, ON  
 CA P4N 8S9  
 Contact: Martin St-Pierre  
 martinstpierre@gflenv.com  
 T: (705)264-8700  
 F: (705)264-8701