



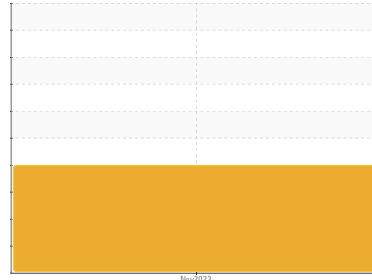
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id  
**FREIGHTLINER 520050**  
 Component  
**Hydraulic System**  
 Fluid  
**PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (43 GAL)**



## DIAGNOSIS

### Recommendation

Vérifier les scelles et/ou les filters pour des points d'entrée des contaminants. Le reniflard d'air doit être réparé. S'il n'est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessiccant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation. Le fluide était spécifié comme PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL, toutefois, une comparaison avec d'autres fluides indique que ce fluide est du ISO 32 AW Hydraulic Oil. Veuillez confirmer la viscosité de l'huile et veuillez préciser la marque de votre prochain échantillon.

### Wear

Les taux d'usure de tous les composants sont normaux.

### Contamination

Il y a une grande quantité de limon (particules de 4 à 14 microns) dans l'huile.

### Fluid Condition

La viscosité de l'huile est inférieure à la viscosité type, ce qui pourrait indiquer l'ajout d'un grade d'huile plus léger. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. L'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0100818</b>	---	---
Sample Date	Client Info	<b>20 Nov 2023</b>	---	---
Machine Age	hrs	Client Info	<b>12049</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>SEVERE</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)	>40	<b>9</b>	---
Chromium	ppm	ASTM D5185(m)	>5	<b>2</b>	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185(m)	>8	<b>3</b>	---
Lead	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185(m)	>20	<b>4</b>	---
Tin	ppm	ASTM D5185(m)	>2	<b>0</b>	---
Antimony	ppm	ASTM D5185(m)	>2	<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)	0	<b>6</b>	---
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>1</b>	---
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	---
Magnesium	ppm	ASTM D5185(m)	0	<b>22</b>	---
Calcium	ppm	ASTM D5185(m)	100	<b>147</b>	---
Phosphorus	ppm	ASTM D5185(m)	670	<b>445</b>	---
Zinc	ppm	ASTM D5185(m)	850	<b>554</b>	---
Sulfur	ppm	ASTM D5185(m)	1600	<b>1158</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

## CONTAMINANTS

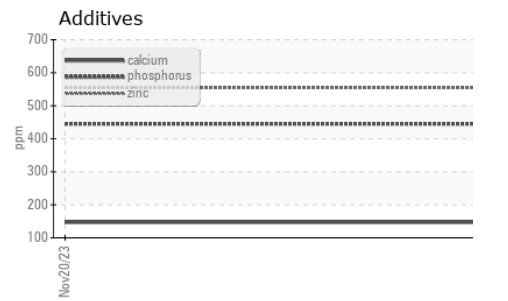
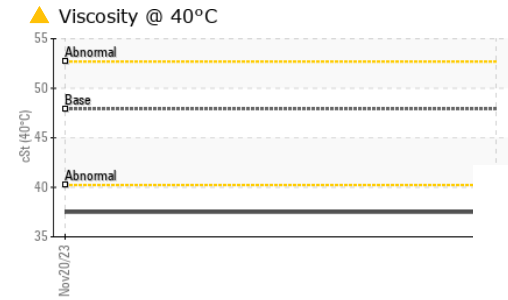
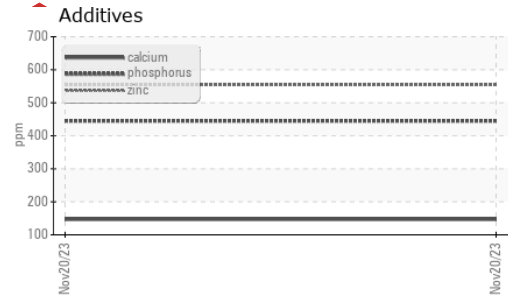
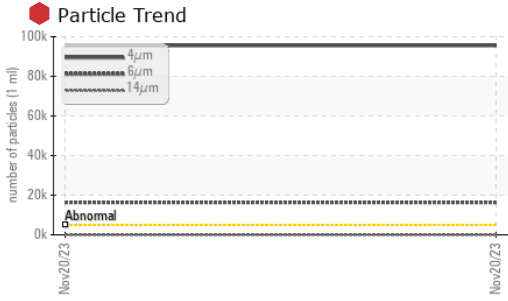
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	---
Sodium	ppm	ASTM D5185(m)		<b>3</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>95529</b>	---
Particles >6µm	ASTM D7647	>1300	<b>16368</b>	---
Particles >14µm	ASTM D7647	>160	<b>44</b>	---
Particles >21µm	ASTM D7647	>40	<b>8</b>	---
Particles >38µm	ASTM D7647	>10	<b>2</b>	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>24/21/13</b>	---



# OIL ANALYSIS REPORT



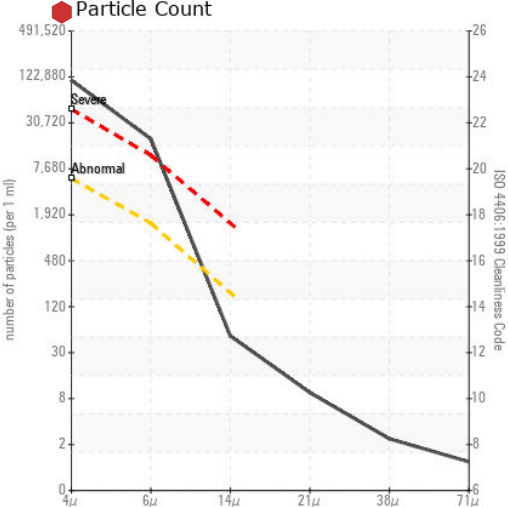
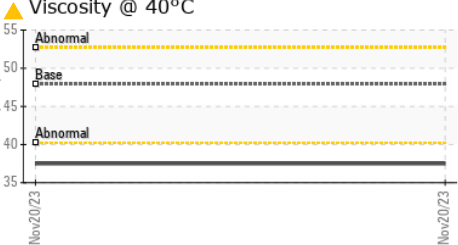
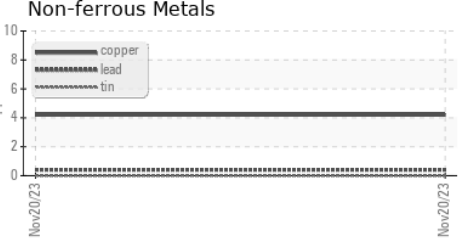
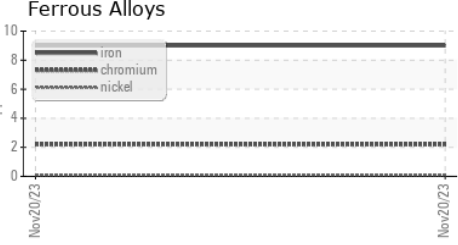
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
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 D7279(m)	47.9 <span style="color: yellow;">▲</span> 37.5	---	---

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental 791MAT - Matane  
**Sample No.** : GFL0100818 **Received** : 22 Nov 2023  
**Lab Number** : 02598184 **Diagnosed** : 23 Nov 2023  
**Unique Number** : 5683264 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

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.

29 rue Brilliant  
 Matane, QC  
 CA G4W 0J7  
 Contact: B Berube  
 bberube@matrec.ca  
 T:  
 F: