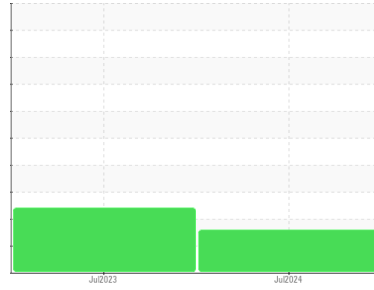


# OIL ANALYSIS REPORT



Machine Id  
**FREIGHTLINER 820058**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- GAL)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
Nous avons pris note que le filtre a été remplacé au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

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

**Contamination**  
Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile.

**Fluid Condition**  
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>PC0088366</b>	GFL0080961	---
Sample Date	Client Info	<b>02 Jul 2024</b>	07 Jul 2023	---
Machine Age	hrs	<b>8104</b>	6109	---
Oil Age	hrs	<b>1995</b>	6109	---
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >40	<b>6</b>	18	---
Chromium	ppm ASTM D5185(m) >5	<b>1</b>	8	---
Nickel	ppm ASTM D5185(m) >2	<b>&lt;1</b>	0	---
Titanium	ppm ASTM D5185(m) >2	<b>0</b>	<1	---
Silver	ppm ASTM D5185(m)	<b>0</b>	0	---
Aluminum	ppm ASTM D5185(m) >8	<b>&lt;1</b>	2	---
Lead	ppm ASTM D5185(m) >5	<b>0</b>	0	---
Copper	ppm ASTM D5185(m) >20	<b>&lt;1</b>	1	---
Tin	ppm ASTM D5185(m) >2	<b>0</b>	0	---
Antimony	ppm ASTM D5185(m) >2	<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) 0	<b>8</b>	3	---
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	0	---
Molybdenum	ppm ASTM D5185(m) 0	<b>4</b>	<1	---
Manganese	ppm ASTM D5185(m) 1	<b>&lt;1</b>	<1	---
Magnesium	ppm ASTM D5185(m) 0	<b>46</b>	11	---
Calcium	ppm ASTM D5185(m) 100	<b>170</b>	76	---
Phosphorus	ppm ASTM D5185(m) 670	<b>647</b>	413	---
Zinc	ppm ASTM D5185(m) 850	<b>842</b>	475	---
Sulfur	ppm ASTM D5185(m) 1600	<b>1578</b>	919	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	---

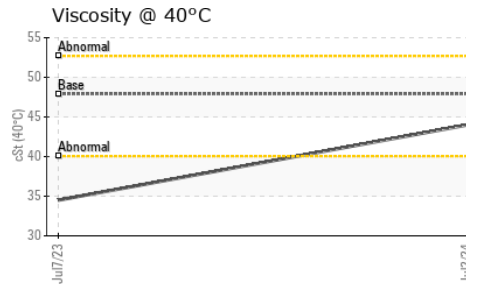
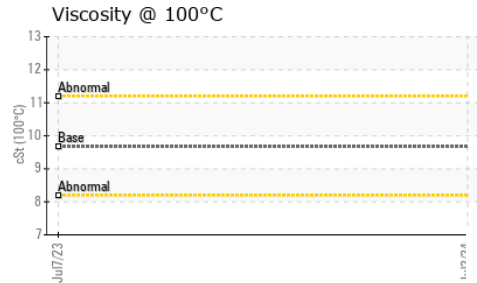
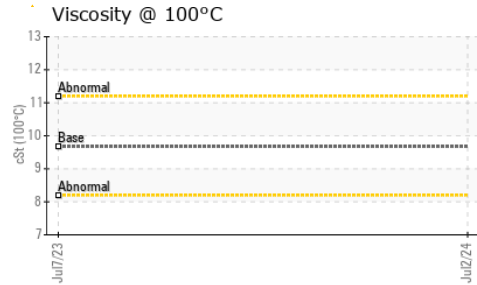
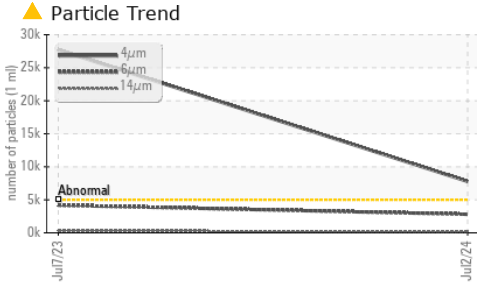
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	<b>2</b>	6	---
Sodium	ppm ASTM D5185(m)	<b>2</b>	10	---
Potassium	ppm ASTM D5185(m) >20	<b>4</b>	19	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>7783</b>	27722	---
Particles >6µm	ASTM D7647 >1300	<b>2801</b>	4183	---
Particles >14µm	ASTM D7647 >160	<b>213</b>	295	---
Particles >21µm	ASTM D7647 >40	<b>40</b>	57	---
Particles >38µm	ASTM D7647 >10	<b>2</b>	1	---
Particles >71µm	ASTM D7647 >3	<b>1</b>	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>20/19/15</b>	22/19/15	---

# OIL ANALYSIS REPORT



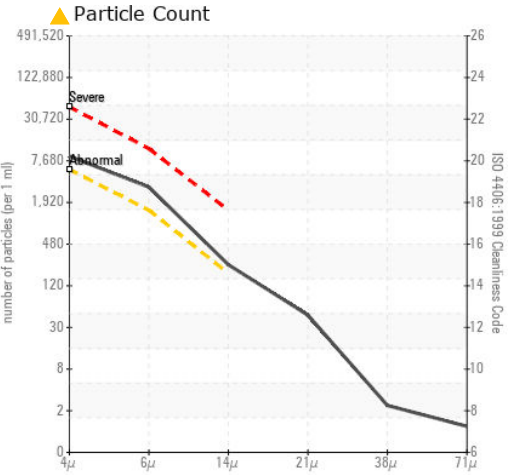
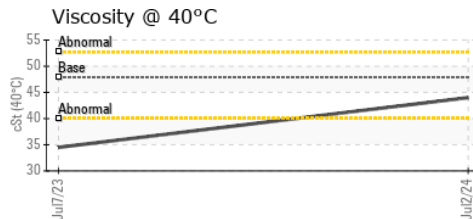
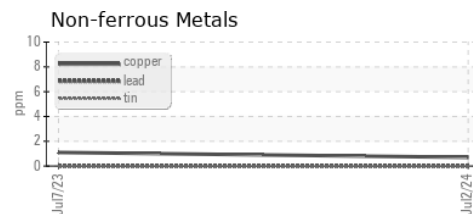
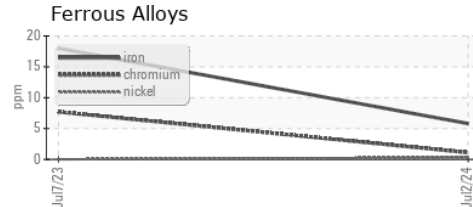
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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	44.0	▲ 34.5
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	8.5	---
Viscosity Index (VI)	Scale	ASTM D2270*	192	174	---

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental 791MAT - Matane**  
**Sample No.** : PC0088366 **Received** : 11 Jul 2024 29 rue Brilliant  
**Lab Number** : 02647350 **Tested** : 12 Jul 2024 Matane, QC  
**Unique Number** : 5812902 **Diagnosed** : 12 Jul 2024 - Wes Davis CA G4W 0J7  
**Test Package** : MOB 1 ( Additional Tests: KV100, PrtCount, VI ) Contact: B Berube  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. bberube@matrec.ca

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.