



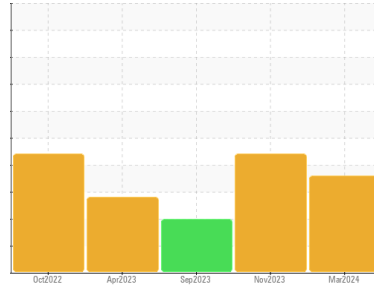
# OIL ANALYSIS REPORT

## Sample Rating Trend

ISO



Machine Id  
**711014**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX MV 32 (--- GAL)**



## DIAGNOSIS

### Recommendation

Vérifier les scelles et/ou les filtres 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 dessicant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Nous recommandons le remplacement des filtres de ce composant. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

### 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

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>GFL0114852</b>	GFL0097080	GFL0088893
Sample Date	Client Info		<b>26 Mar 2024</b>	21 Nov 2023	26 Sep 2023
Machine Age	hrs	Client Info	<b>5881</b>	103906	4966
Oil Age	hrs	Client Info	<b>0</b>	0	1200
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>SEVERE</b>	SEVERE	SEVERE

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>9</b>	12	10
Chromium	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m) >5	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >4	<b>0</b>	0	2
Copper	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>0</b>	<1	<1
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>3</b>	2	2
Calcium	ppm	ASTM D5185(m) 50	<b>58</b>	57	58
Phosphorus	ppm	ASTM D5185(m) 330	<b>325</b>	321	329
Zinc	ppm	ASTM D5185(m) 430	<b>419</b>	417	416
Sulfur	ppm	ASTM D5185(m) 760	<b>738</b>	745	768
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

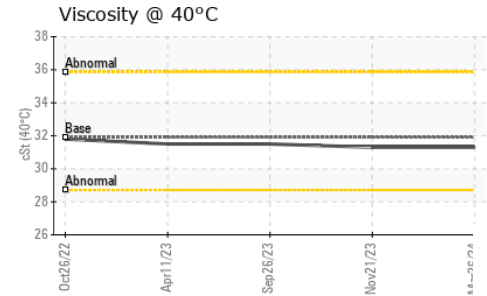
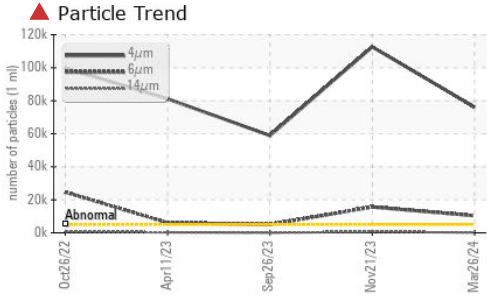
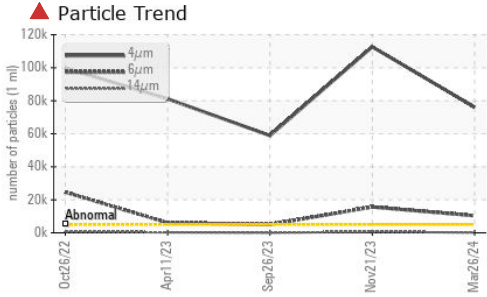
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>3</b>	5	4
Sodium	ppm	ASTM D5185(m)	<b>10</b>	11	11
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	2	1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 76110</b>	▲ 112660	▲ 58904
Particles >6µm	ASTM D7647	>1300	<b>▲ 10347</b>	▲ 15675	▲ 5048
Particles >14µm	ASTM D7647	>160	<b>115</b>	▲ 630	50
Particles >21µm	ASTM D7647	>40	<b>24</b>	▲ 142	8
Particles >38µm	ASTM D7647	>10	<b>2</b>	8	1
Particles >71µm	ASTM D7647	>3	<b>1</b>	1	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 23/21/14</b>	▲ 24/21/16	▲ 23/20/13

# OIL ANALYSIS REPORT



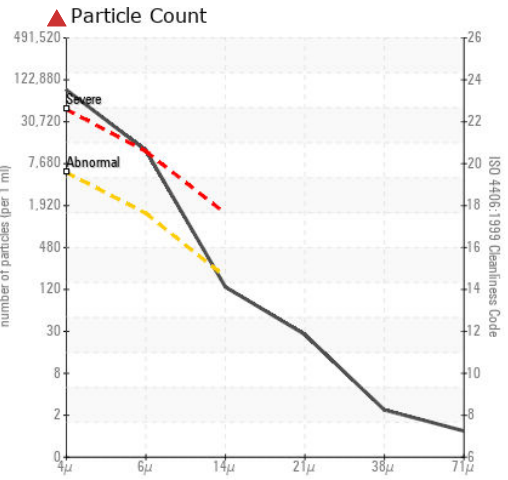
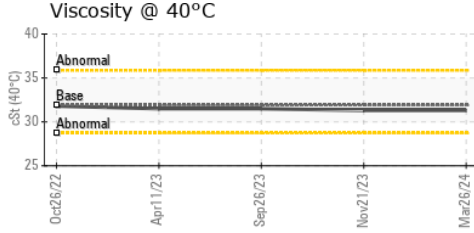
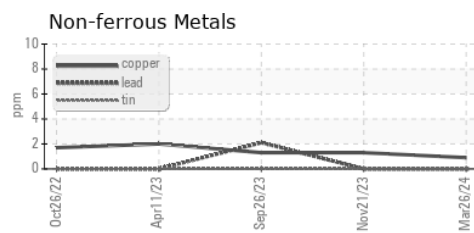
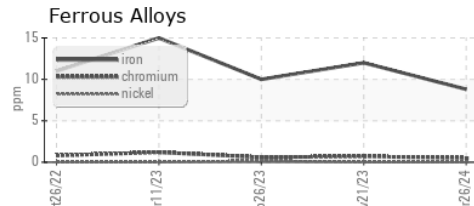
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	.5%
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	31.3	31.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0114852  
**Lab Number** : 02625325  
**Unique Number** : 5750444  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )  
**Received** : 28 Mar 2024  
**Tested** : 01 Apr 2024  
**Diagnosed** : 01 Apr 2024 - Wes Davis

**GFL Environmental - 780 - GMA - ICI - Solid Waste**  
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 Laval, QC  
 CA H7P 4J3  
 Contact: Pieces Laval  
 pieces.laval@gflenv.com  
 T: (450)687-3838  
 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.