



# OIL ANALYSIS REPORT

Sample Rating Trend

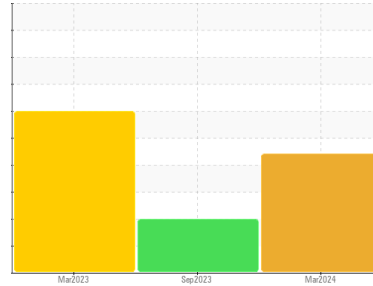
ISO



Machine Id  
**711018**

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 avons pris note que le filtre a été remplacé au moment de l'échantillonnage. 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>GFL0114865</b>	GFL0088830	GFL0047505
Sample Date	Client Info		<b>07 Mar 2024</b>	07 Sep 2023	21 Mar 2023
Machine Age	hrs	Client Info	<b>5449</b>	85850	3600
Oil Age	hrs	Client Info	<b>0</b>	0	1200
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
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>7</b>	6	10
Chromium	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >5	<b>1</b>	<1	1
Lead	ppm	ASTM D5185(m) >4	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	1	2
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	0	<1
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>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>1</b>	3	0
Manganese	ppm	ASTM D5185(m) 1	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>32</b>	50	1
Calcium	ppm	ASTM D5185(m) 50	<b>92</b>	112	53
Phosphorus	ppm	ASTM D5185(m) 330	<b>368</b>	406	347
Zinc	ppm	ASTM D5185(m) 430	<b>449</b>	477	386
Sulfur	ppm	ASTM D5185(m) 760	<b>883</b>	897	766
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

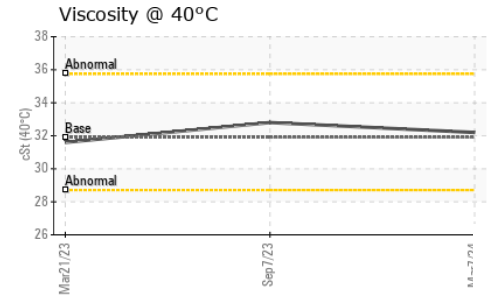
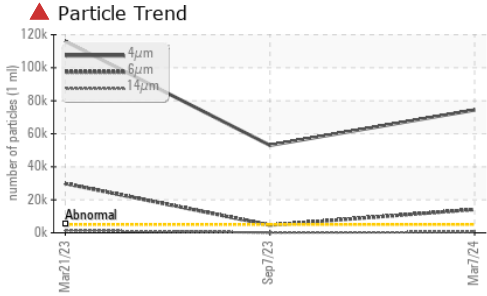
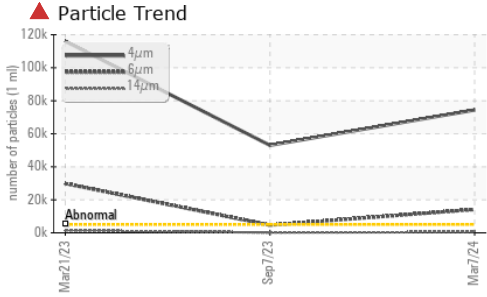
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>3</b>	2	4
Sodium	ppm	ASTM D5185(m)	<b>7</b>	6	15
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	1	2

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 74424</b>	▲ 52997	▲ 116032
Particles >6µm	ASTM D7647	>1300	<b>▲ 14146</b>	▲ 4632	▲ 29849
Particles >14µm	ASTM D7647	>160	<b>▲ 463</b>	127	▲ 1429
Particles >21µm	ASTM D7647	>40	<b>● 67</b>	35	▲ 267
Particles >38µm	ASTM D7647	>10	<b>2</b>	1	11
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 23/21/16</b>	▲ 23/19/14	▲ 24/22/18

# OIL ANALYSIS REPORT



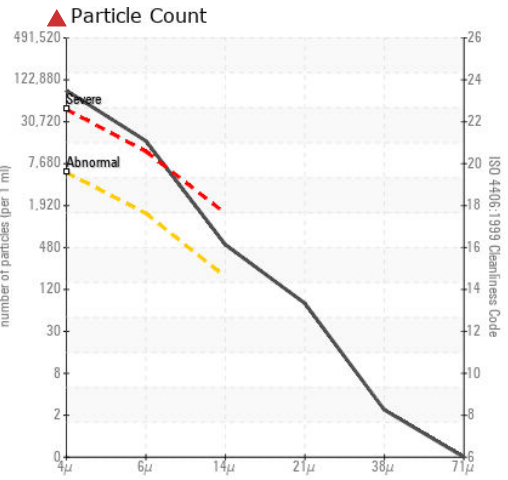
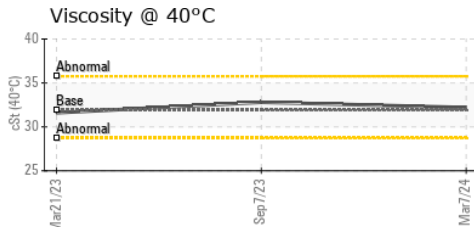
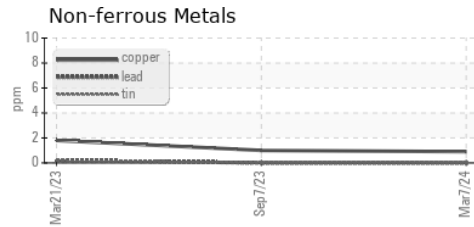
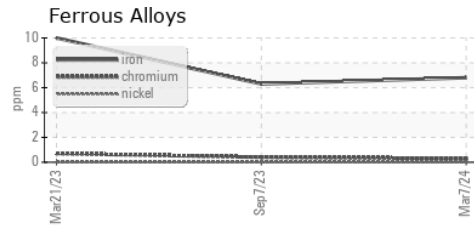
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	32.2	32.8	31.6

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9    **GFL Environmental - 780 - GMA - ICI - Solid Waste**  
**Sample No.** : GFL0114865    **Received** : 12 Mar 2024    4365 boul. St-Elzear Ouest,  
**Lab Number** : 02621520    **Tested** : 13 Mar 2024    Laval, QC  
**Unique Number** : 5746639    **Diagnosed** : 13 Mar 2024 - Wes Davis    CA H7P 4J3  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )    Contact: Pieces Laval  
 To discuss this sample report, contact Customer Service at 1-800-268-2131.    pieces.laval@gflenv.com  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.    T: (450)687-3838  
 Validity of results and interpretation are based on the sample and information as supplied.    F: