



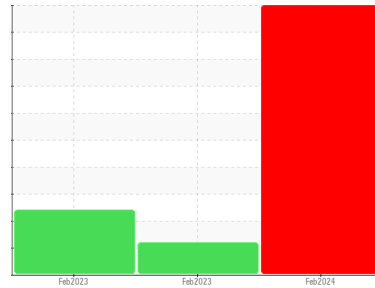
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**[511630]**  
 Machine Id  
**732026**  
 Component  
**Hydraulic System**  
 Fluid  
**PETRO CANADA HYDREX MV 32 (--- GAL)**



## DIAGNOSIS

### ▲ Recommendation

Nous vous recommandons de vérifier tous les endroits par lesquels des contaminants peuvent pénétrer dans le système. Nous vous recommandons de vidanger l'huile de ce composant si vous ne l'avez pas déjà fait. 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 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 quantité élevée de matières particulaires (2 à 100 µm de taille) présente dans l'huile. Concentration modérée d'eau dans l'huile. Présence d'une quantité excessive d'eau libre.

### 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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0103669</b>	GFL0072721	GFL0072699
Sample Date	Client Info		<b>26 Feb 2024</b>	17 Feb 2023	08 Feb 2023
Machine Age	hrs	Client Info	<b>0</b>	1202	1002
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Changed</b>	Not Changd	Not Changed
Sample Status			<b>SEVERE</b>	ABNORMAL	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >40	<b>9</b>	6	7
Chromium	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >8	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m) >20	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m) >2	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185(m) >2	<b>0</b>	0	<1
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>8</b>	<1	<1
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>3</b>	0	0
Manganese	ppm	ASTM D5185(m) 1	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>38</b>	0	<1
Calcium	ppm	ASTM D5185(m) 50	<b>66</b>	49	50
Phosphorus	ppm	ASTM D5185(m) 330	<b>283</b>	336	340
Zinc	ppm	ASTM D5185(m) 430	<b>399</b>	396	400
Sulfur	ppm	ASTM D5185(m) 760	<b>833</b>	765	778
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

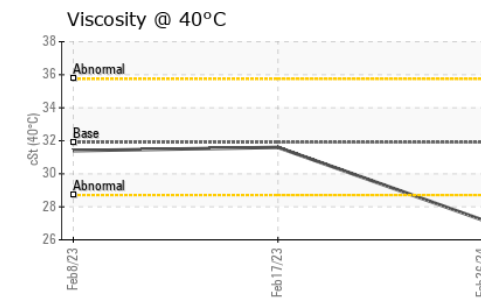
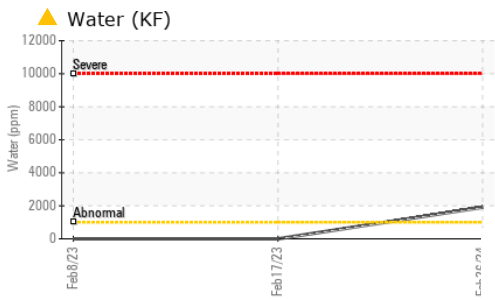
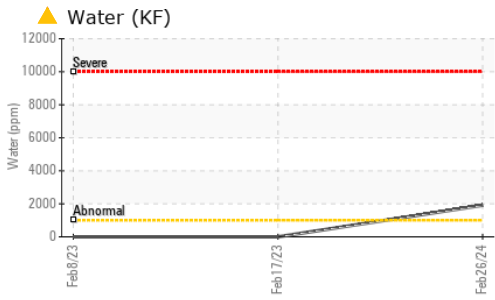
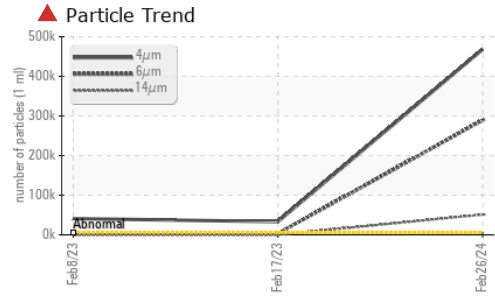
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	<b>4</b>	2	2
Sodium	ppm	ASTM D5185(m)	<b>29</b>	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>11</b>	<1	0
Water	%	ASTM D6304* >0.1	<b>▲ 0.191</b>	---	---
ppm Water	ppm	ASTM D6304* >1000	<b>▲ 1911</b>	---	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 468020</b>	▲ 33172	▲ 41027
Particles >6µm	ASTM D7647	>1300	<b>▲ 289120</b>	▲ 3350	▲ 4363
Particles >14µm	ASTM D7647	>160	<b>▲ 50839</b>	99	● 223
Particles >21µm	ASTM D7647	>40	<b>▲ 13904</b>	16	38
Particles >38µm	ASTM D7647	>10	<b>▲ 491</b>	0	1
Particles >71µm	ASTM D7647	>3	<b>3</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 26/25/23</b>	▲ 22/19/14	▲ 23/19/15



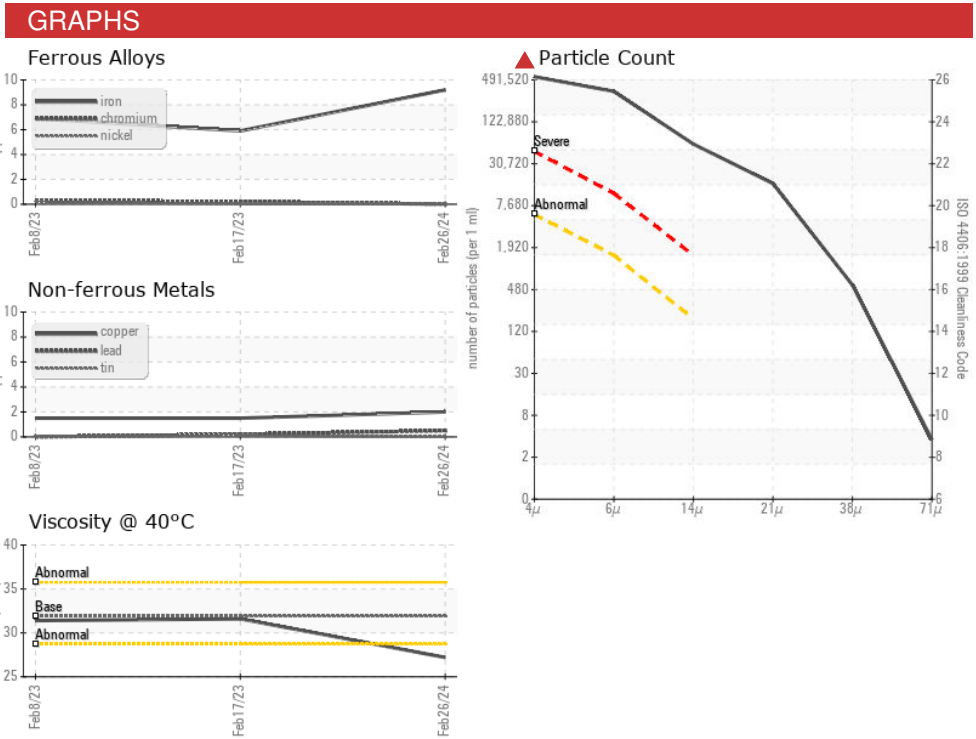
# OIL ANALYSIS REPORT



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	<b>LIGHT</b>	NONE
Appearance	scalar	Visual*	NORML	<b>▲ LAYRD</b>	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>▲ 1%</b>	NEG
Free Water	scalar	Visual*		<b>▲ &gt;10%</b>	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	<b>27.2</b>	31.6	31.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0103669  
**Lab Number** : 02620596  
**Unique Number** : 5737706  
**Test Package** : MOB 1 ( Additional Tests: KF, PrtCount )

**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.