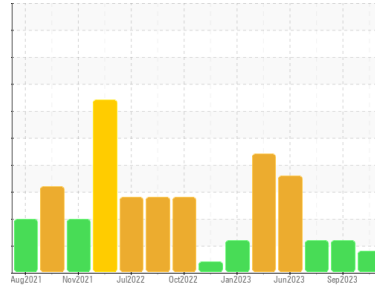




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**OR483**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX MV 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Usure de segment.

### Contamination

La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable.

### Fluid Condition

l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0089217</b>	GFL0061619	GFL0061631
Sample Date	Client Info	<b>11 Nov 2023</b>	27 Sep 2023	08 Aug 2023
Machine Age	hrs	<b>11770</b>	11453	11178
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >71	<b>11</b>	12	11
Chromium	ppm	ASTM D5185(m) >11	<b>▲ 14</b>	▲ 16	▲ 14
Nickel	ppm	ASTM D5185(m) >6	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	3	<1
Aluminum	ppm	ASTM D5185(m) >11	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m) >13	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m) >21	<b>2</b>	2	1
Tin	ppm	ASTM D5185(m) >5	<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>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	1	2
Manganese	ppm	ASTM D5185(m) 1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>25</b>	32	32
Calcium	ppm	ASTM D5185(m) 50	<b>109</b>	124	124
Phosphorus	ppm	ASTM D5185(m) 330	<b>381</b>	400	417
Zinc	ppm	ASTM D5185(m) 430	<b>433</b>	450	445
Sulfur	ppm	ASTM D5185(m) 760	<b>925</b>	956	955
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

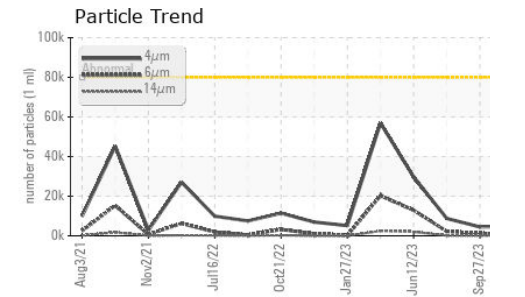
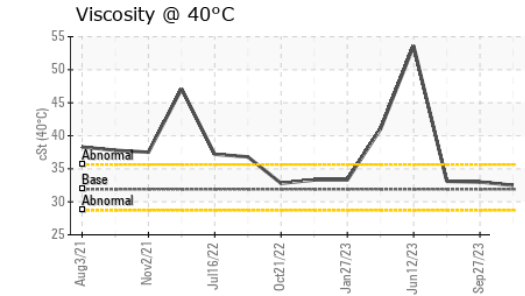
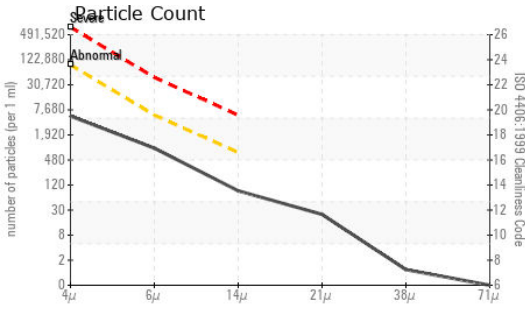
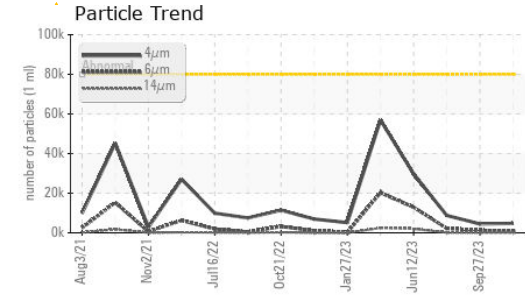
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >24	<b>0</b>	2	2
Sodium	ppm	ASTM D5185(m) >21	<b>0</b>	2	2
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	<1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>80000	<b>4755</b>	4484	8766
Particles >6µm	ASTM D7647	>5000	<b>810</b>	1271	2215
Particles >14µm	ASTM D7647	>640	<b>77</b>	105	159
Particles >21µm	ASTM D7647	>160	<b>21</b>	30	33
Particles >38µm	ASTM D7647	>40	<b>1</b>	5	1
Particles >71µm	ASTM D7647	>10	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>23/19/16	<b>19/17/13</b>	19/17/14	20/18/14



# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 784 - Saint-Hyacinthe  
**Sample No.** : GFL0089217 **Received** : 15 Nov 2023 3525 Boul. Laurier Est.,  
**Lab Number** : 02596586 **Diagnosed** : 16 Nov 2023 Saint-Hyacinthe, QC  
**Unique Number** : 5681666 **Diagnostician** : Kevin Marson CA J2R 2B2  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )  
 Contact: Nadine Authier  
 nauthier@matrec.ca  
 T: (450)773-9689  
 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.

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	VLITE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.075	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	32.5	▲ 33.0 ▲ 33.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS

