



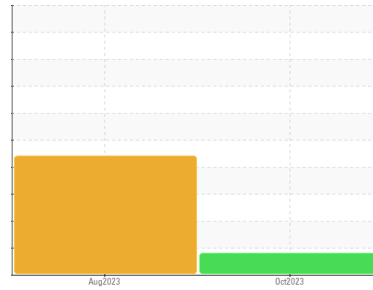
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id
412022
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)



DIAGNOSIS

Recommendation

Nous recommandons le remplacement des filtres de ce composant. 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	GFL0096380	GFL0087595	---
Sample Date	Client Info	27 Oct 2023	23 Aug 2023	---
Machine Age	kms Client Info	212503	194521	---
Oil Age	kms Client Info	0	0	---
Oil Changed	Client Info	Not Chngd	Not Chngd	---
Sample Status		ABNORMAL	SEVERE	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>50	6	5	---
Chromium ppm ASTM D5185(m)	>10	1	1	---
Nickel ppm ASTM D5185(m)	>4	<1	<1	---
Titanium ppm ASTM D5185(m)		0	0	---
Silver ppm ASTM D5185(m)		<1	0	---
Aluminum ppm ASTM D5185(m)	>5	<1	<1	---
Lead ppm ASTM D5185(m)	>4	<1	<1	---
Copper ppm ASTM D5185(m)	>15	1	1	---
Tin ppm ASTM D5185(m)	>4	0	0	---
Antimony ppm ASTM D5185(m)		0	0	---
Vanadium ppm ASTM D5185(m)		0	0	---
Beryllium ppm ASTM D5185(m)		0	0	---
Cadmium ppm ASTM D5185(m)		0	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	0	1	1	---
Barium ppm ASTM D5185(m)	0	<1	0	---
Molybdenum ppm ASTM D5185(m)	0	0	0	---
Manganese ppm ASTM D5185(m)	1	0	0	---
Magnesium ppm ASTM D5185(m)	0	2	2	---
Calcium ppm ASTM D5185(m)	50	480	429	---
Phosphorus ppm ASTM D5185(m)	330	282	264	---
Zinc ppm ASTM D5185(m)	430	216	185	---
Sulfur ppm ASTM D5185(m)	760	1088	976	---
Lithium ppm ASTM D5185(m)		<1	<1	---

CONTAMINANTS

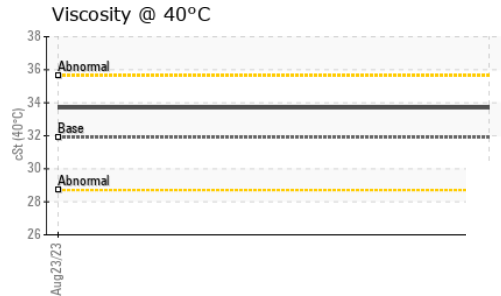
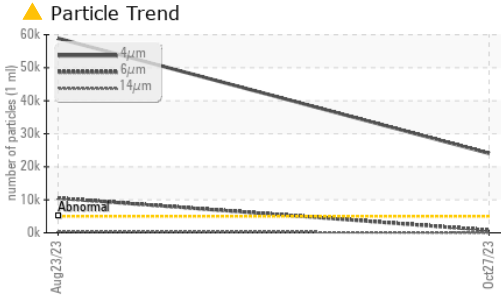
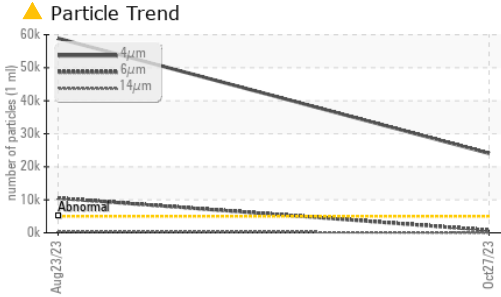
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	1	1	---
Sodium ppm ASTM D5185(m)		3	3	---
Potassium ppm ASTM D5185(m)	>20	0	<1	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	▲ 24051	● 58895	---
Particles >6µm ASTM D7647	>1300	789	● 10486	---
Particles >14µm ASTM D7647	>160	23	▲ 408	---
Particles >21µm ASTM D7647	>40	5	▲ 95	---
Particles >38µm ASTM D7647	>10	1	8	---
Particles >71µm ASTM D7647	>3	0	2	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	▲ 22/17/12	● 23/21/16	---



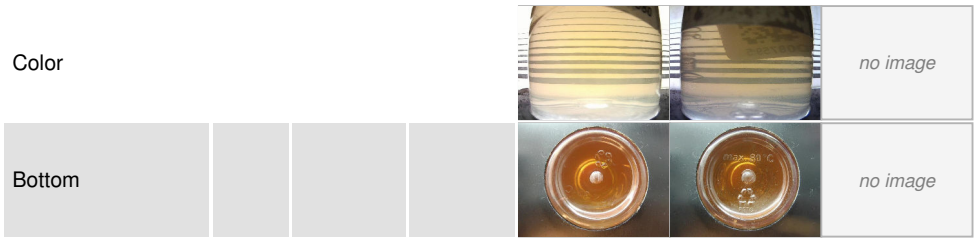
OIL ANALYSIS REPORT



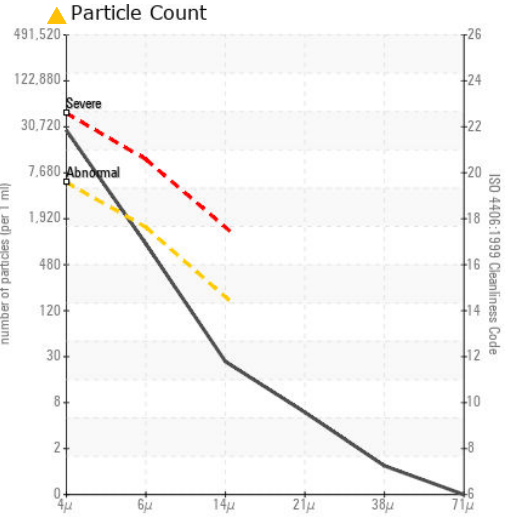
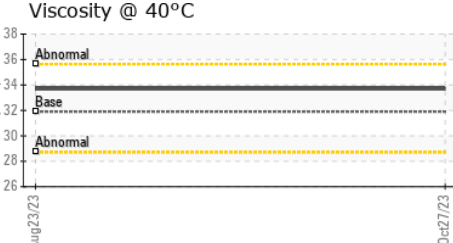
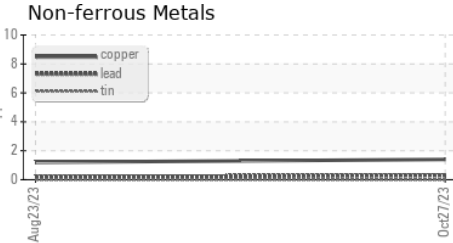
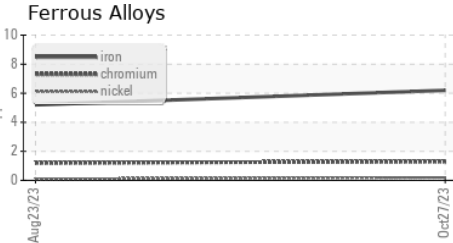
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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)	31.9	33.7	33.7

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 - 747 - GMA - Solid Waste
Sample No. : GFL0096380 **Received** : 31 Oct 2023
Lab Number : 02592980 **Diagnosed** : 01 Nov 2023
Unique Number : 5670059 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PrtCount)

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.