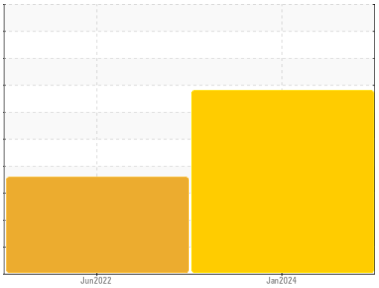
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
7163
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)

DIAGNOSIS

Recommendation

Vérifier les scelles et/ou les filters pour des points d'entrée des contaminants. Nous vous recommandons de vérifier tous les endroits par lesquels des contaminants peuvent pénétrer dans le système. 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 vous recommandons de vidanger l`huile de ce composant si vous ne l`avez pas déjà fait. Nous avons pris note que le filtre a été remplacé au moment de l`échantillonnage. 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 élevée de matières particulaires (2 à 100 µm de taille) présente dans l`huile. Concentration modérée d`eau dans l`huile.

Fluid Condition

l`huile ne peut plus être utilisée en raison de la présence de contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0103754**	GFL0053338	---
Sample Date		Client Info		**15 Jan 2024**	07 Jun 2022	---
Machine Age	hrs	Client Info		**17043**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**SEVERE**	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	**15**	12	---
Chromium	ppm	ASTM D5185(m)	>10	**<1**	2	---
Nickel	ppm	ASTM D5185(m)	>10	**<1**	0	---
Titanium	ppm	ASTM D5185(m)		**0**	0	---
Silver	ppm	ASTM D5185(m)		**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>10	**<1**	1	---
Lead	ppm	ASTM D5185(m)	>10	**<1**	<1	---
Copper	ppm	ASTM D5185(m)	>75	**2**	4	---
Tin	ppm	ASTM D5185(m)	>10	**0**	<1	---
Antimony	ppm	ASTM D5185(m)		**0**	<1	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

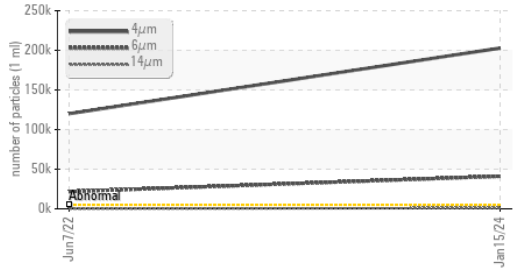
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**2**	<1	---
Barium	ppm	ASTM D5185(m)	0	**0**	0	---
Molybdenum	ppm	ASTM D5185(m)	0	**4**	<1	---
Manganese	ppm	ASTM D5185(m)	1	**0**	<1	---
Magnesium	ppm	ASTM D5185(m)	0	**93**	4	---
Calcium	ppm	ASTM D5185(m)	50	**157**	65	---
Phosphorus	ppm	ASTM D5185(m)	330	**377**	337	---
Zinc	ppm	ASTM D5185(m)	430	**462**	407	---
Sulfur	ppm	ASTM D5185(m)	760	**1080**	748	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**2**	1	---
Sodium	ppm	ASTM D5185(m)		**4**	3	---
Potassium	ppm	ASTM D5185(m)	>20	**9**	<1	---
Water	%	ASTM D6304*	>0.1	▲ **0.171**	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ **1720**	---	---

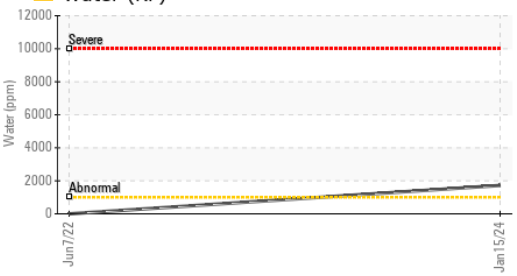
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	● **202817**	● 120044	---
Particles >6µm		ASTM D7647	>1300	● **41107**	● 21691	---
Particles >14µm		ASTM D7647	>160	▲ **894**	126	---
Particles >21µm		ASTM D7647	>40	▲ **132**	14	---
Particles >38µm		ASTM D7647	>10	**4**	0	---
Particles >71µm		ASTM D7647	>3	**1**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● **25/23/17**	● 24/22/14	---

OIL ANALYSIS REPORT

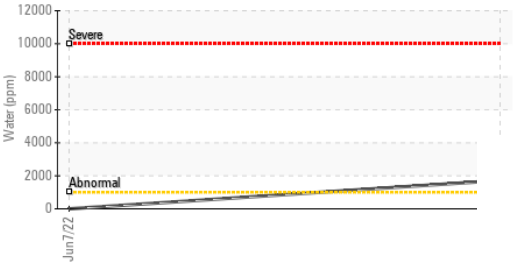
Particle Trend



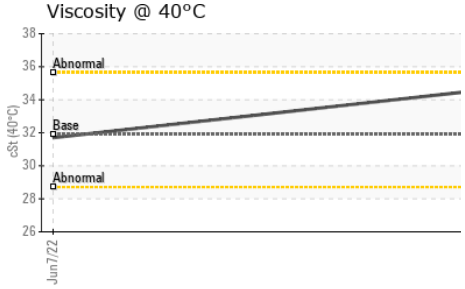
Water (KF)



Water (KF)

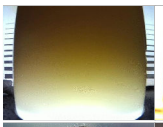
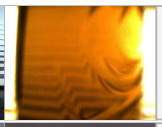


Viscosity @ 40°C



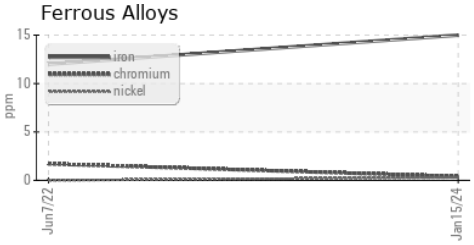
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**NONE**	NONE	---
Debris	scalar	Visual*	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	---
Appearance	scalar	Visual*	NORML	▲ **HAZY**	NORML	---
Odor	scalar	Visual*	NORML	**NORML**	NORML	---
Emulsified Water	scalar	Visual*	>0.1	▲ **.2%**	NEG	---
Free Water	scalar	Visual*		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	**34.6**	31.7	---

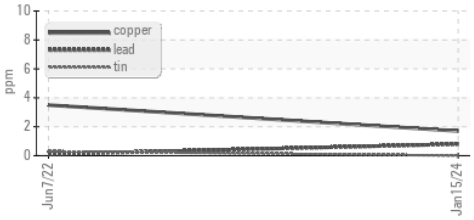
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

GRAPHS

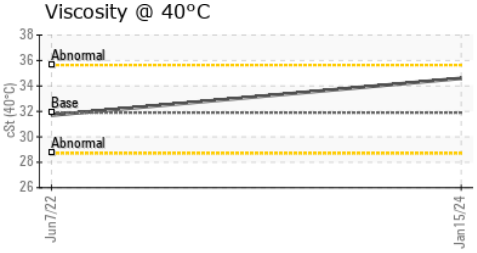
Ferrous Alloys



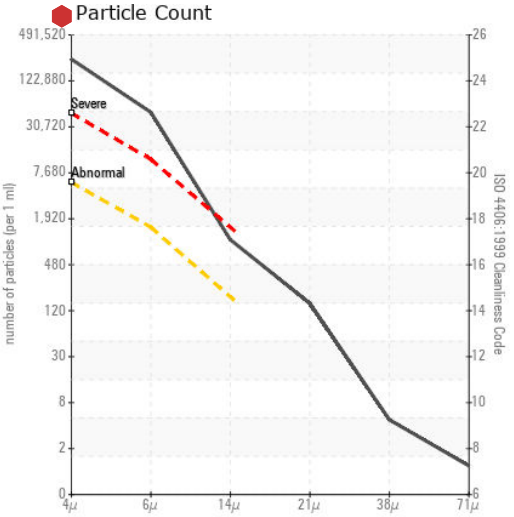
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 780 - GMA - ICI - Solid Waste**
Sample No. : GFL0103754 **Recieved** : 18 Jan 2024
Lab Number : 02609712 **Diagnosed** : 19 Jan 2024
Unique Number : 5710798 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KF, PrtCount)

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Laval, QC
CA H7P 4J3
Contact: Pieces Laval
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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.