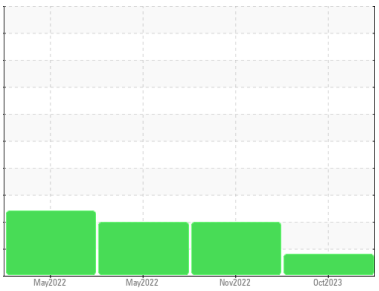
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
811034
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)

DIAGNOSIS

Recommendation

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 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		**GFL0096408**	GFL0061762	GFL0043209
Sample Date		Client Info		**05 Oct 2023**	11 Nov 2022	25 May 2022
Machine Age	hrs	Client Info		**4470**	0	2277
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	N/A	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>40	**12**	6	5
Chromium	ppm	ASTM D5185(m)	>5	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	0
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	0
Silver	ppm	ASTM D5185(m)		**<1**	0	0
Aluminum	ppm	ASTM D5185(m)	>8	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>5	**0**	0	0
Copper	ppm	ASTM D5185(m)	>20	**1**	<1	<1
Tin	ppm	ASTM D5185(m)	>2	**0**	0	0
Antimony	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**<1**	<1	2
Barium	ppm	ASTM D5185(m)	0	**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	0	**<1**	<1	2
Manganese	ppm	ASTM D5185(m)	1	**0**	0	0
Magnesium	ppm	ASTM D5185(m)	0	**4**	2	5
Calcium	ppm	ASTM D5185(m)	50	**65**	58	71
Phosphorus	ppm	ASTM D5185(m)	330	**334**	351	350
Zinc	ppm	ASTM D5185(m)	430	**438**	404	439
Sulfur	ppm	ASTM D5185(m)	760	**770**	775	811
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**2**	1	1
Sodium	ppm	ASTM D5185(m)		**2**	1	<1
Potassium	ppm	ASTM D5185(m)	>20	**2**	2	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **12208**	▲ 16804	▲ 22366
Particles >6µm		ASTM D7647	>1300	**930**	▲ 4989	▲ 7455
Particles >14µm		ASTM D7647	>160	**15**	▲ 336	▲ 864
Particles >21µm		ASTM D7647	>40	**3**	▲ 68	▲ 238
Particles >38µm		ASTM D7647	>10	**1**	2	12
Particles >71µm		ASTM D7647	>3	**0**	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/17/11**	▲ 21/19/16	▲ 22/20/17

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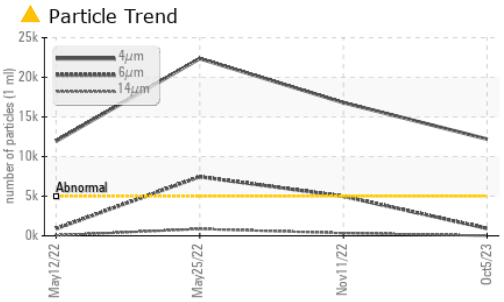
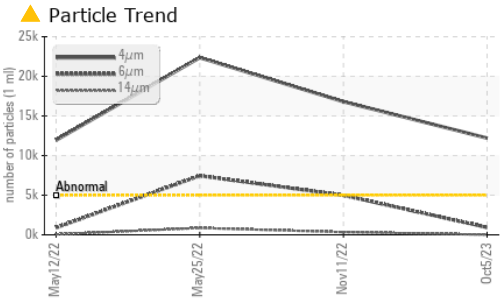
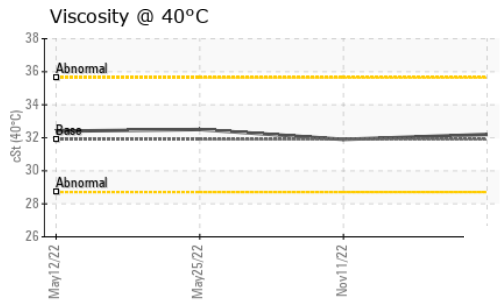
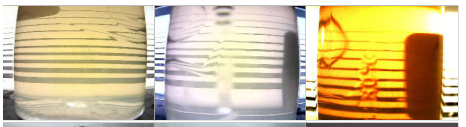




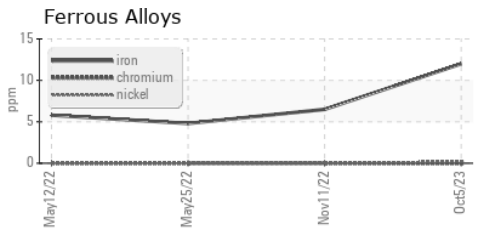


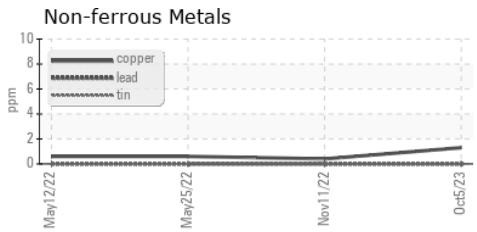
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	VLITE
Sand/Dirt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

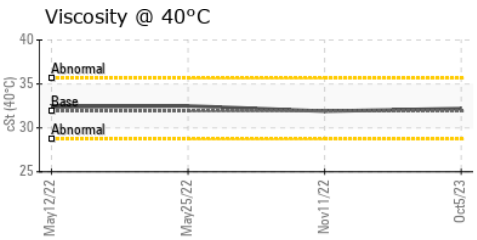
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	**32.2**	31.9	32.5

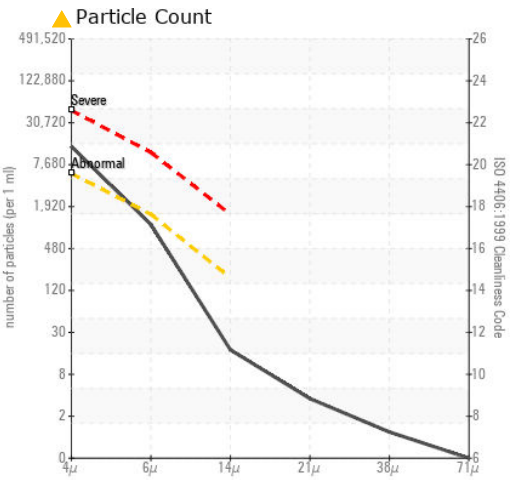
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 747 - GMA - Solid Waste**
Sample No. : GFL0096408 **Received** : 17 Oct 2023
Lab Number : 02589659 **Diagnosed** : 18 Oct 2023
Unique Number : 5658725 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PrtCount)

4 Chemin du Tremblay,
Boucherville, QC
CA J4B 6Z5
Contact: Steve Voyer
svoyer@matrec.ca
T: (450)641-3070
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.