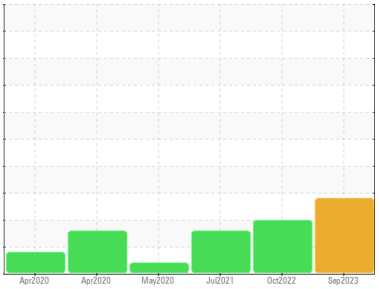
OIL ANALYSIS REPORT

Machine Id
701079
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)

Sample Rating Trend



WEAR

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
Usure de segment. Le diagnostic reflète les données mises à jour sur ce composant.

Contamination
Il y a une quantité modérée de particules (de 4 à 14 microns) dans l`huile.

Fluid Condition
l`huile n'est plus en état de service en raison d'une usure anomale et/ou sévère.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0084387**	GFL0047494	GFL0013768
Sample Date		Client Info		**26 Sep 2023**	19 Oct 2022	05 Jul 2021
Machine Age	hrs	Client Info		**138900**	122836	88944
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>40	**13**	13	9
Chromium	ppm	ASTM D5185(m)	>5	▲ **8**	8	5
Nickel	ppm	ASTM D5185(m)	>2	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	<1	0
Silver	ppm	ASTM D5185(m)		**<1**	0	<1
Aluminum	ppm	ASTM D5185(m)	>8	**2**	2	1
Lead	ppm	ASTM D5185(m)	>5	**<1**	0	0
Copper	ppm	ASTM D5185(m)	>20	**2**	2	1
Tin	ppm	ASTM D5185(m)	>2	**0**	0	0
Antimony	ppm	ASTM D5185(m)	>2	**0**	<1	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

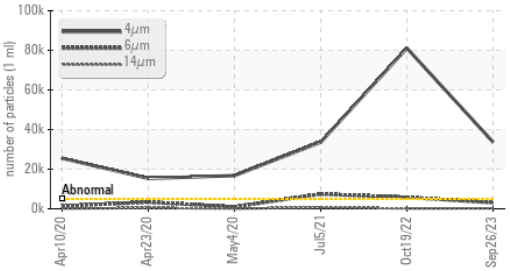
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**1**	<1	1
Barium	ppm	ASTM D5185(m)	0	**<1**	0	0
Molybdenum	ppm	ASTM D5185(m)	0	**0**	<1	<1
Manganese	ppm	ASTM D5185(m)	1	**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	**3**	3	3
Calcium	ppm	ASTM D5185(m)	50	**54**	55	55
Phosphorus	ppm	ASTM D5185(m)	330	**332**	350	343
Zinc	ppm	ASTM D5185(m)	430	**408**	397	415
Sulfur	ppm	ASTM D5185(m)	760	**895**	779	768
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**6**	6	3
Sodium	ppm	ASTM D5185(m)		**6**	6	4
Potassium	ppm	ASTM D5185(m)	>20	**1**	2	2

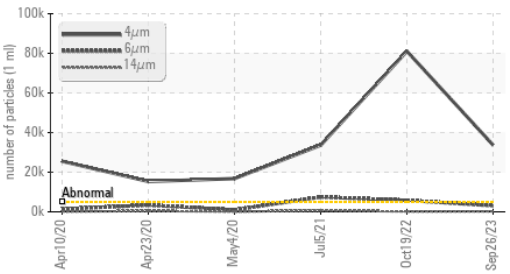
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **33709**	⬢ 81066	▲ 33630
Particles >6µm		ASTM D7647	>1300	▲ **3039**	▲ 5773	▲ 7461
Particles >14µm		ASTM D7647	>160	▲ **212**	149	▲ 618
Particles >21µm		ASTM D7647	>40	▲ **58**	38	▲ 145
Particles >38µm		ASTM D7647	>10	**4**	4	5
Particles >71µm		ASTM D7647	>3	**1**	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **22/19/15**	⬢ 24/20/14	▲ 22/20/16

OIL ANALYSIS REPORT

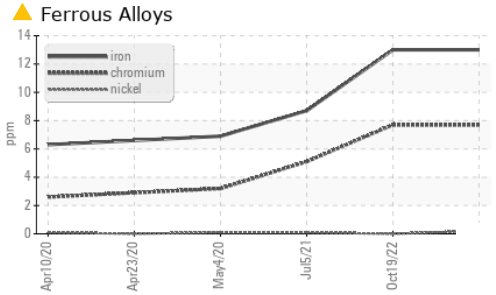
Particle Trend



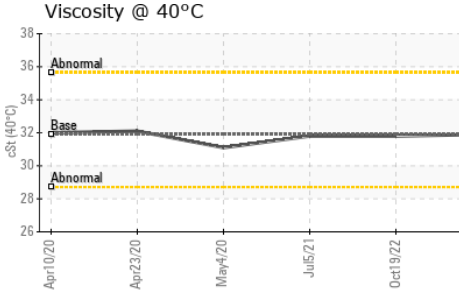
Particle Trend



Ferrous Alloys



Viscosity @ 40°C



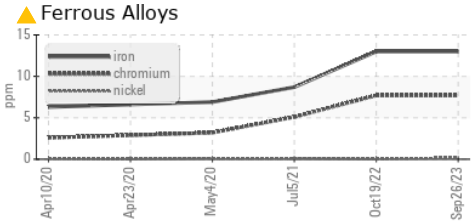
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	VLITE
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	**31.9**	31.8	31.8

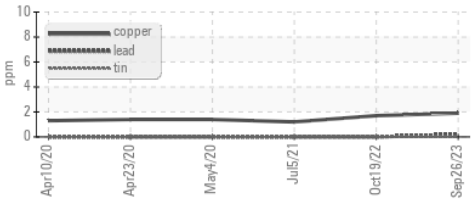
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

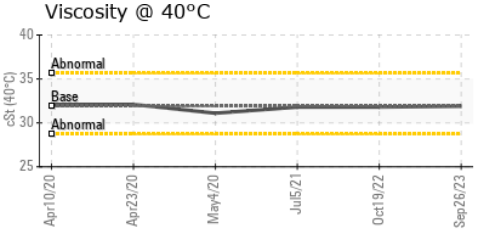
Ferrous Alloys



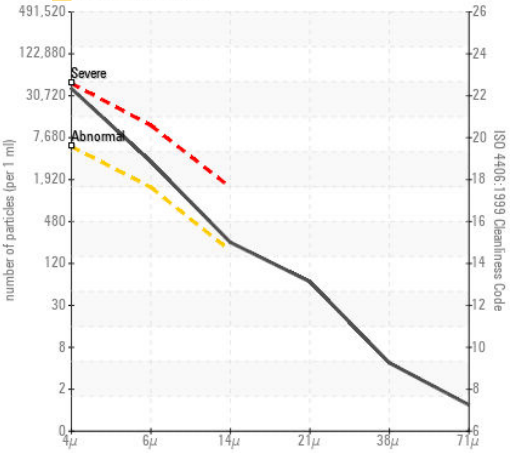
Non-ferrous Metals



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. : GFL0084387 **Received** : 12 Oct 2023
Lab Number : 02588635 **Diagnosed** : 13 Oct 2023
Unique Number : 5657701 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PrtCount)

4365 boul. St-Elzear Ouest,
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.