



OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id
250004

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)



DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil. There is a moderate concentration of water present in the oil. Free water present.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0084048	---	---
Sample Date	Client Info	14 Jun 2023	---	---
Machine Age	hrs Client Info	10994	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		SEVERE	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>20	11	---	---
Chromium ppm ASTM D5185(m)	>10	1	---	---
Nickel ppm ASTM D5185(m)	>10	0	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>10	1	---	---
Lead ppm ASTM D5185(m)	>10	<1	---	---
Copper ppm ASTM D5185(m)	>75	1	---	---
Tin ppm ASTM D5185(m)	>10	0	---	---
Antimony ppm ASTM D5185(m)		0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	0	<1	---	---
Barium ppm ASTM D5185(m)	0	<1	---	---
Molybdenum ppm ASTM D5185(m)	0	0	---	---
Manganese ppm ASTM D5185(m)	1	0	---	---
Magnesium ppm ASTM D5185(m)	0	<1	---	---
Calcium ppm ASTM D5185(m)	50	20	---	---
Phosphorus ppm ASTM D5185(m)	330	347	---	---
Zinc ppm ASTM D5185(m)	430	406	---	---
Sulfur ppm ASTM D5185(m)	760	733	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

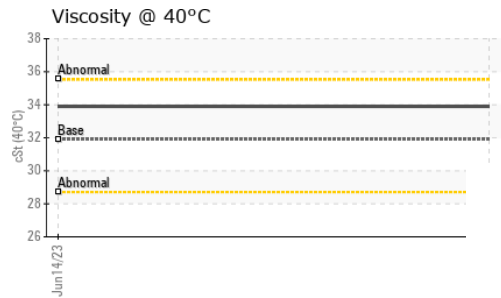
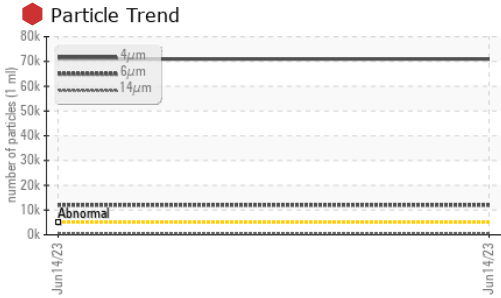
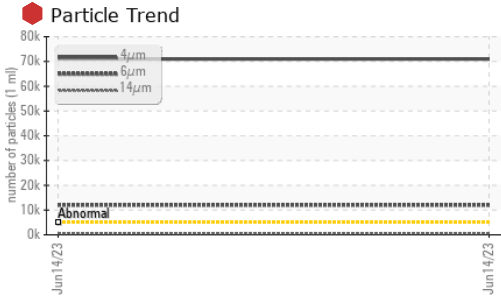
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>20	2	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	<1	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	70974	---	---
Particles >6µm ASTM D7647	>1300	12030	---	---
Particles >14µm ASTM D7647	>160	554	---	---
Particles >21µm ASTM D7647	>40	187	---	---
Particles >38µm ASTM D7647	>10	3	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	23/21/16	---	---



OIL ANALYSIS REPORT



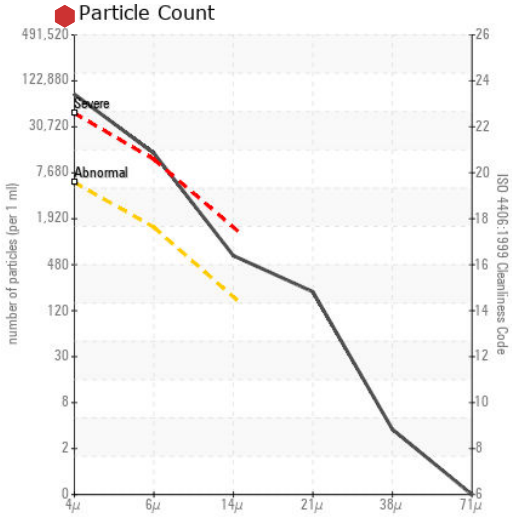
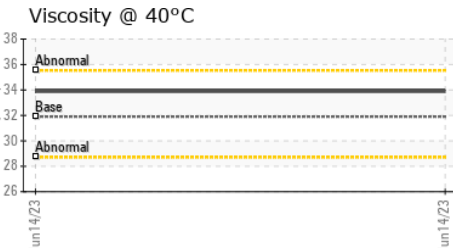
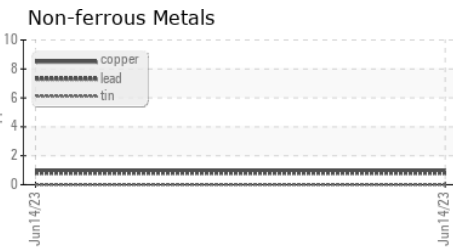
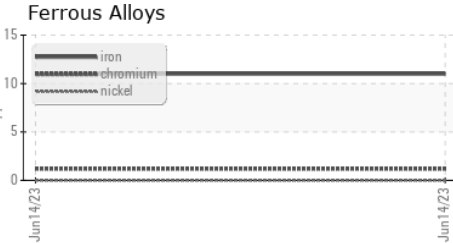
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	▲ WGOIL	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	.5%	---
Free Water	scalar	Visual*		▲ 1%	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	33.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 574 - Vancouver Fleet
Sample No. : GFL0084048 **Received** : 14 Jul 2023
Lab Number : 02570136 **Diagnosed** : 18 Jul 2023
Unique Number : 5607182 **Diagnostician** : Kevin Marson
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.

Contact: Allison Adams
 aadams@gflenv.com
 T: (604)529-4023
 F: