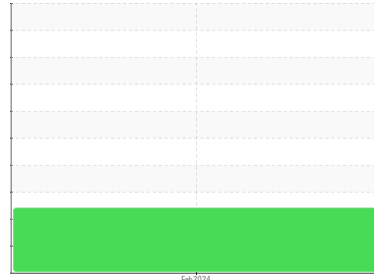




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id
911038
Component
Tank Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (200 LTR)

DIAGNOSIS

▲ Recommendation

Check seals and/or filters for points of contaminant entry. 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. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0059103	---	---
Sample Date	Client Info	12 Feb 2024	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	2400	---
Oil Changed	Client Info	Changed	---	---
Sample Status		SEVERE	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >50	35	---	---
Chromium	ppm ASTM D5185(m) >10	4	---	---
Nickel	ppm ASTM D5185(m) >4	0	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m)	0	---	---
Aluminum	ppm ASTM D5185(m) >5	3	---	---
Lead	ppm ASTM D5185(m) >4	<1	---	---
Copper	ppm ASTM D5185(m) >15	<1	---	---
Tin	ppm ASTM D5185(m) >4	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	0	---	---
Barium	ppm ASTM D5185(m) 0	0	---	---
Molybdenum	ppm ASTM D5185(m) 0	0	---	---
Manganese	ppm ASTM D5185(m) 1	0	---	---
Magnesium	ppm ASTM D5185(m) 0	6	---	---
Calcium	ppm ASTM D5185(m) 50	69	---	---
Phosphorus	ppm ASTM D5185(m) 330	337	---	---
Zinc	ppm ASTM D5185(m) 430	419	---	---
Sulfur	ppm ASTM D5185(m) 760	847	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

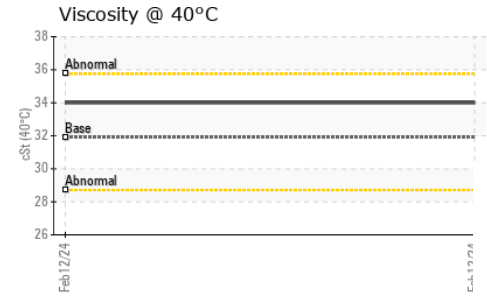
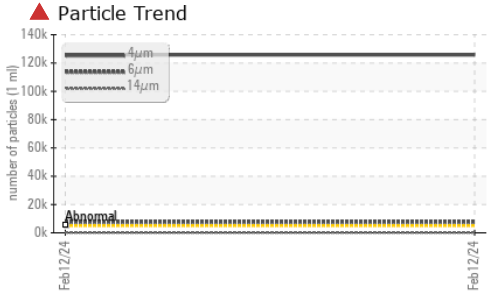
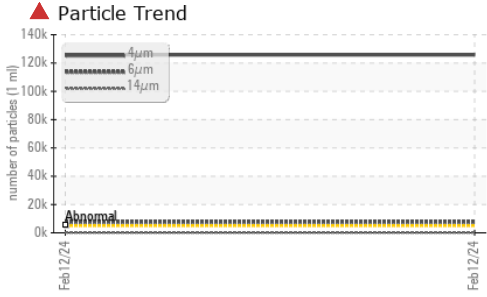
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	9	---	---
Sodium	ppm ASTM D5185(m)	9	---	---
Potassium	ppm ASTM D5185(m) >20	2	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 125730	---	---
Particles >6µm	ASTM D7647 >1300	▲ 7698	---	---
Particles >14µm	ASTM D7647 >160	● 194	---	---
Particles >21µm	ASTM D7647 >40	38	---	---
Particles >38µm	ASTM D7647 >10	2	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 24/20/15	---	---



OIL ANALYSIS REPORT



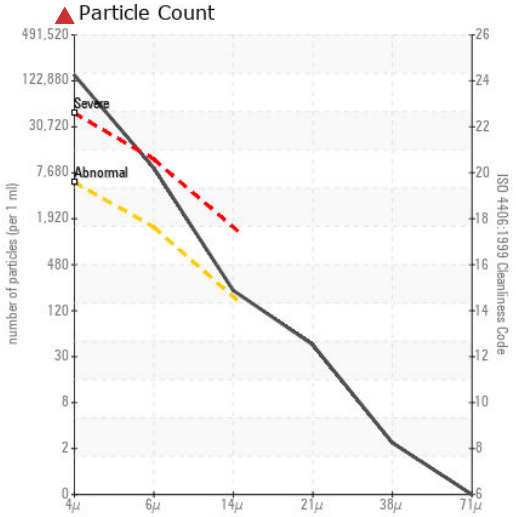
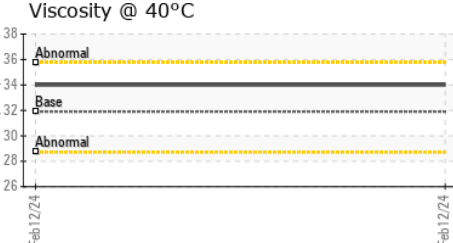
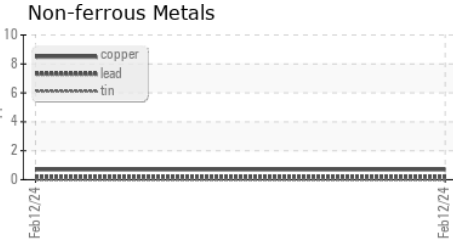
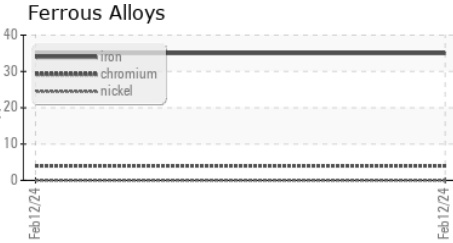
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	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	34.0	---	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0059103 **Received** : 04 Mar 2024
Lab Number : 02619593 **Tested** : 05 Mar 2024
Unique Number : 5736703 **Diagnosed** : 05 Mar 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PrtCount)

GFL Environmental - 570 - Thunder Bay
 3000 Highway 61,
 Slate River, ON
 CA P7J 0G8
 Contact: Cindy Wall
 cwall@gflenv.com
 T: (807)577-0411
 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.