



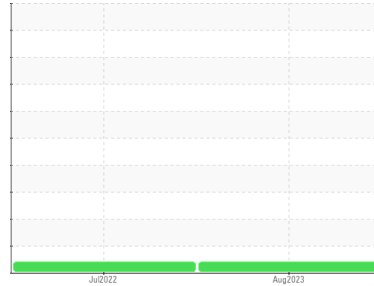
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id
801139
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0084177	GFL0035592	---
Sample Date	Client Info		17 Aug 2023	13 Jul 2022	---
Machine Age	hrs	Client Info	15434	13086	---
Oil Age	hrs	Client Info	1200	1200	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >40	8	8	---
Chromium	ppm	ASTM D5185(m) >5	0	0	---
Nickel	ppm	ASTM D5185(m) >2	<1	0	---
Titanium	ppm	ASTM D5185(m) >2	0	0	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >8	<1	0	---
Lead	ppm	ASTM D5185(m) >5	3	3	---
Copper	ppm	ASTM D5185(m) >20	26	27	---
Tin	ppm	ASTM D5185(m) >2	<1	<1	---
Antimony	ppm	ASTM D5185(m) >2	0	0	---
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	<1	<1	---
Barium	ppm	ASTM D5185(m) 0	0	0	---
Molybdenum	ppm	ASTM D5185(m) 0	<1	<1	---
Manganese	ppm	ASTM D5185(m) 1	0	0	---
Magnesium	ppm	ASTM D5185(m) 0	4	4	---
Calcium	ppm	ASTM D5185(m) 50	55	56	---
Phosphorus	ppm	ASTM D5185(m) 330	343	320	---
Zinc	ppm	ASTM D5185(m) 430	342	332	---
Sulfur	ppm	ASTM D5185(m) 760	758	777	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

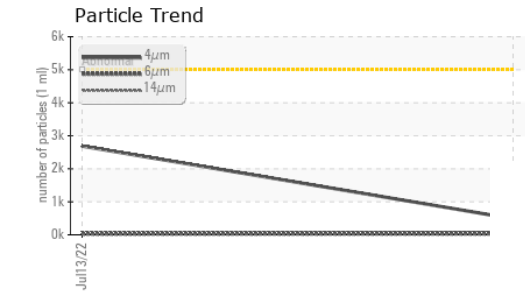
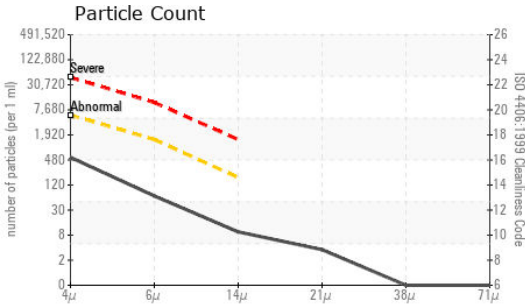
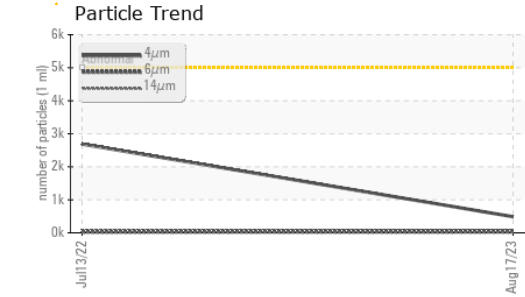
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	<1	<1	---
Sodium	ppm	ASTM D5185(m)	1	<1	---
Potassium	ppm	ASTM D5185(m) >20	1	<1	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	488	2687	---
Particles >6µm	ASTM D7647	>1300	58	41	---
Particles >14µm	ASTM D7647	>160	8	4	---
Particles >21µm	ASTM D7647	>40	3	2	---
Particles >38µm	ASTM D7647	>10	0	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	16/13/10	19/13/9	---



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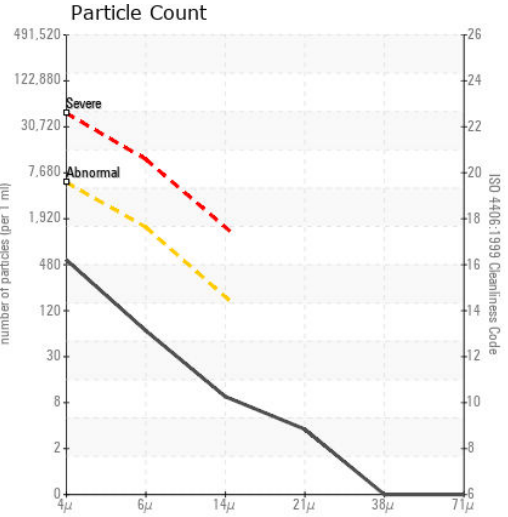
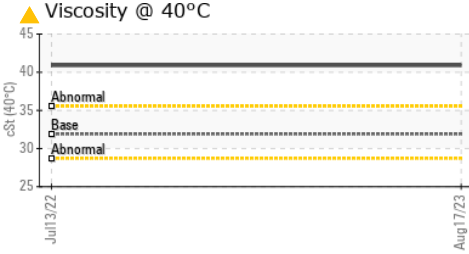
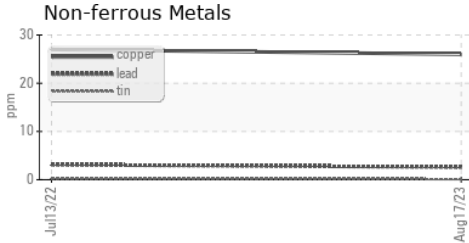
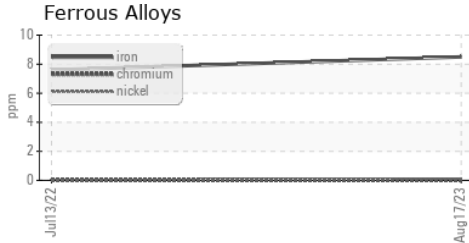


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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 ▲ 40.9	▲ 40.9	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 573 - Vancouver Hauling
Sample No. : GFL0084177 **Received** : 08 Sep 2023 70 Golden Drive,
Lab Number : 02581170 **Diagnosed** : 11 Sep 2023 Coquitlam, BC
Unique Number : 5642235 **Diagnostician** : Kevin Marson CA V3K 6B5
Test Package : MOB 1 (Additional Tests: PrtCount) Contact: Catia Klagenberg Alves
cklagenbergalves@gflenv.com

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.