



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
(546HPY)

Machine Id
1034A

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX AW 46 (50 GAL)



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0118778	GFL0001876	GFLI-601810
Sample Date		Client Info		07 May 2024	24 Nov 2019	05 Jun 2019
Machine Age	hrs	Client Info		17676	8273	6773
Oil Age	hrs	Client Info		17556	0	1500
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>30	15	3	2
Chromium	ppm	ASTM D5185m	>2	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>2	2	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>25	1	<1	0
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

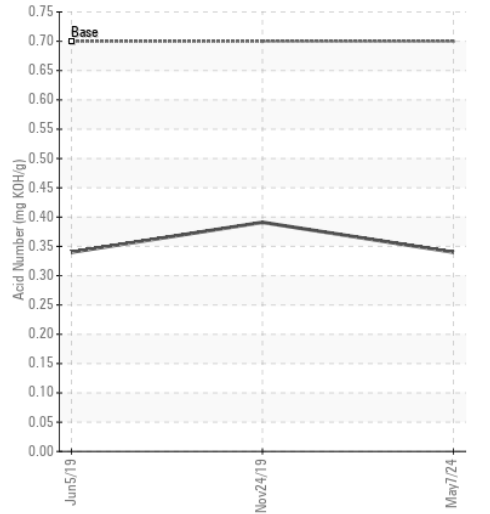
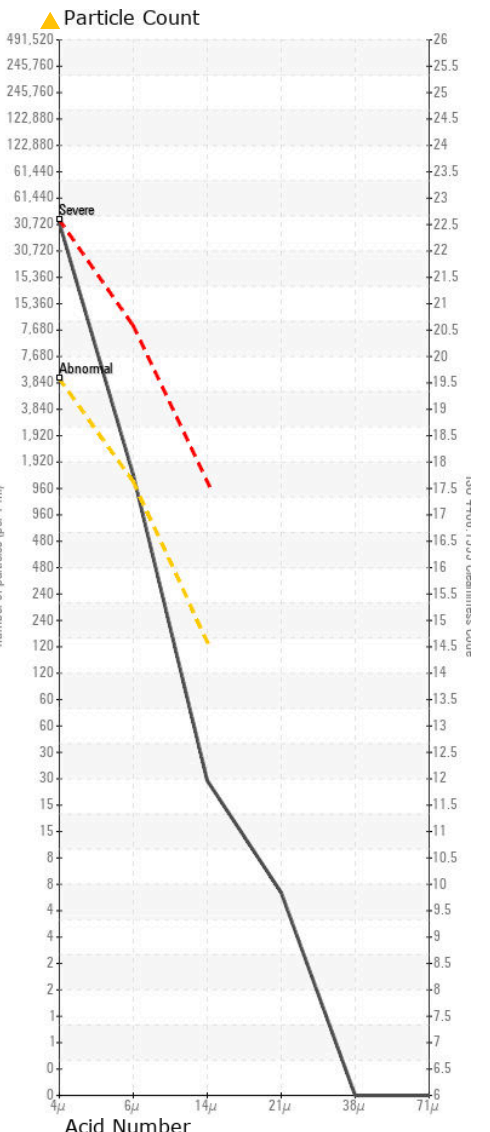
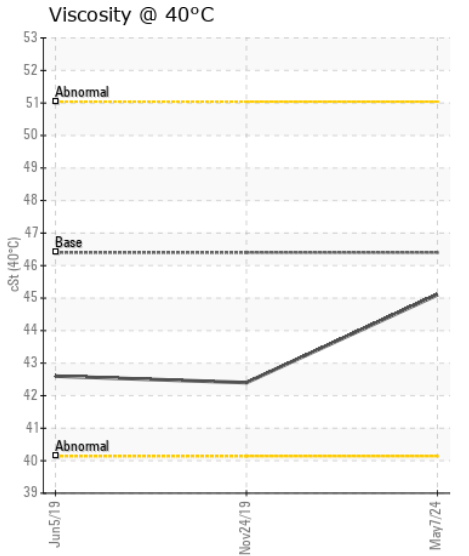
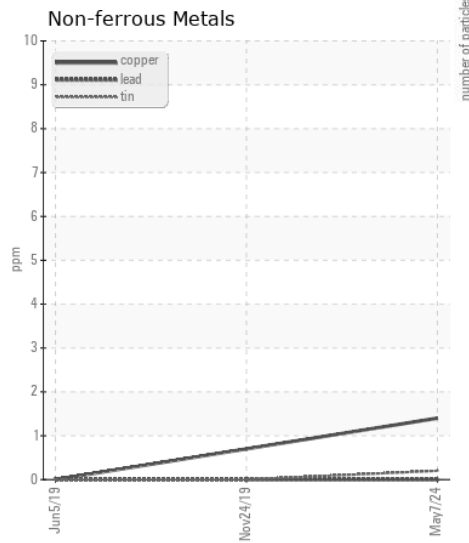
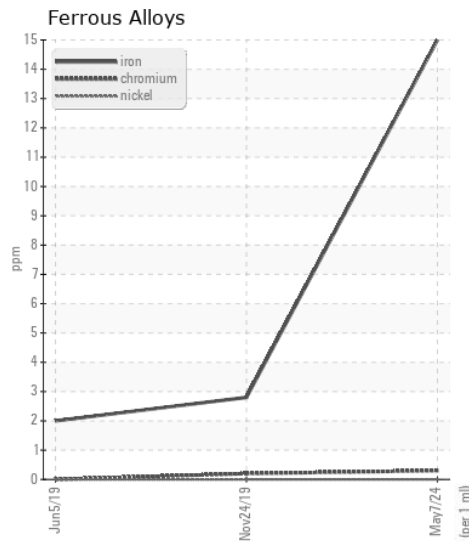
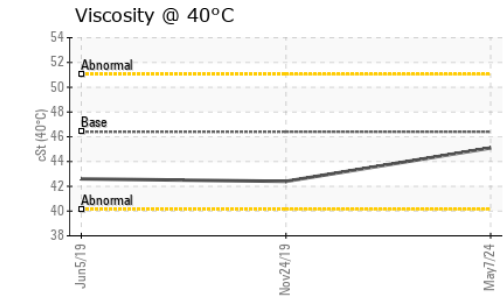
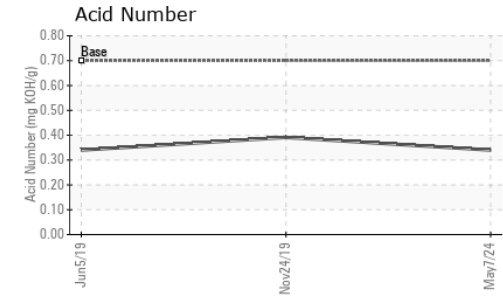
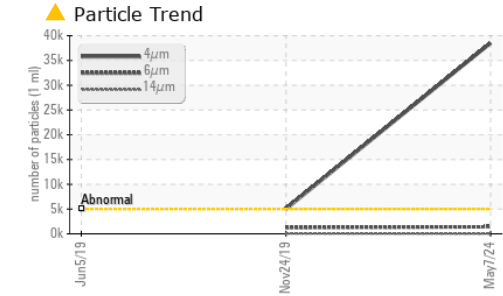
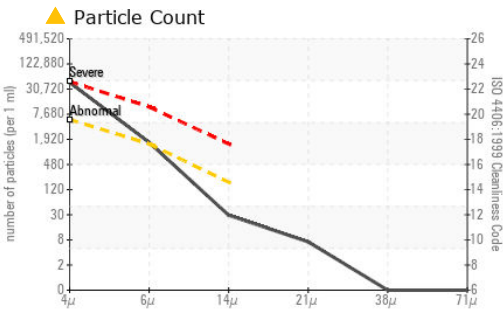
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>25	2	<1	1
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	38505	4996	---
Particles >6µm		ASTM D7647	>1300	1419	1230	---
Particles >14µm		ASTM D7647	>160	26	63	---
Particles >21µm		ASTM D7647	>40	6	17	---
Particles >38µm		ASTM D7647	>10	0	4	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	22/18/12	19/17/13	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		1	<1	1
Boron	ppm	ASTM D5185m	0	4	1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	4	1	0
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	0	28	8	6
Calcium	ppm	ASTM D5185m	50	136	67	59
Phosphorus	ppm	ASTM D5185m	330	378	326	296
Zinc	ppm	ASTM D5185m	430	464	429	384
Sulfur	ppm	ASTM D5185m	760	1010	759	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.34	0.391	0.34
Visc @ 40°C	cSt	ASTM D445	46.4	45.1	42.4	42.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0118778 **Received** : 10 May 2024
Lab Number : 06175392 **Tested** : 13 May 2024
Unique Number : 11021445 **Diagnosed** : 14 May 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: PrtCount)

GFL Environmental - 837 - Harrison TS
 22820 S State Route 291
 Harrisonville, MO
 US 64701
 Contact: SARA PATRICK
 spatrick@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: