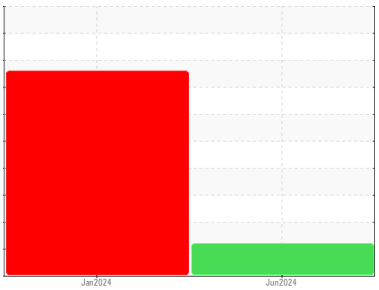
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
(83J3TW)
Machine Id
229035-632119
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 46 (--- GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0122855**	GFL0108174	---
Sample Date		Client Info		**25 Jun 2024**	08 Jan 2024	---
Machine Age	hrs	Client Info		**11207**	10216	---
Oil Age	hrs	Client Info		**10216**	0	---
Oil Changed		Client Info		**Not Changd**	Not Changd	---
Sample Status				**ATTENTION**	SEVERE	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**<1**	0	---
Chromium	ppm	ASTM D5185m	>10	**0**	<1	---
Nickel	ppm	ASTM D5185m	>10	**<1**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>10	**<1**	<1	---
Lead	ppm	ASTM D5185m	>10	**0**	0	---
Copper	ppm	ASTM D5185m	>75	**0**	3	---
Tin	ppm	ASTM D5185m	>10	**<1**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

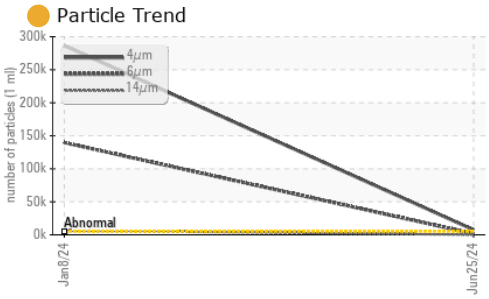
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**<1**	0	---
Barium	ppm	ASTM D5185m	0	**0**	0	---
Molybdenum	ppm	ASTM D5185m	0	**<1**	0	---
Manganese	ppm	ASTM D5185m	1	**<1**	<1	---
Magnesium	ppm	ASTM D5185m	0	**13**	5	---
Calcium	ppm	ASTM D5185m	50	**108**	61	---
Phosphorus	ppm	ASTM D5185m	330	**381**	302	---
Zinc	ppm	ASTM D5185m	430	**492**	355	---
Sulfur	ppm	ASTM D5185m	760	**1209**	737	---

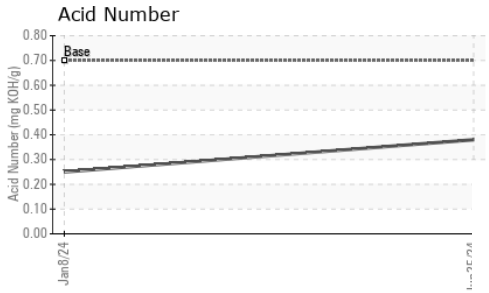
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**2**	5	---
Sodium	ppm	ASTM D5185m		**0**	0	---
Potassium	ppm	ASTM D5185m	>20	**2**	0	---

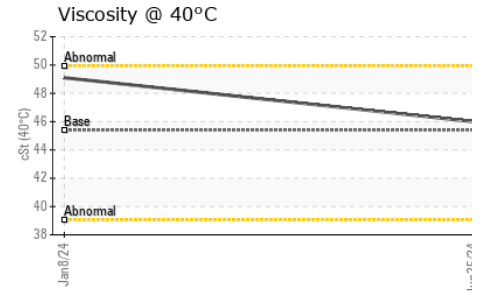
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**7483**	▲ 286429	---
Particles >6µm		ASTM D7647	>1300	**1635**	▲ 139542	---
Particles >14µm		ASTM D7647	>160	**51**	▲ 6291	---
Particles >21µm		ASTM D7647	>40	**7**	▲ 883	---
Particles >38µm		ASTM D7647	>10	**0**	12	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**20/18/13**	▲ 25/24/20	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	**0.38**	0.25	---

OIL ANALYSIS REPORT

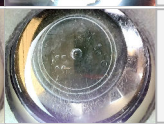




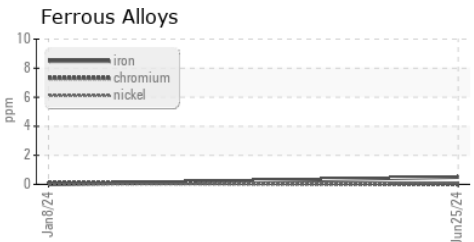


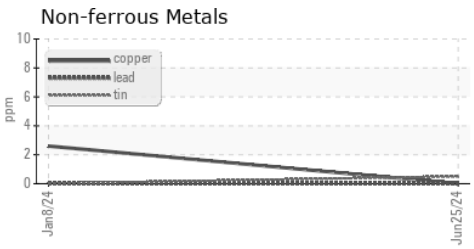
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	LIGHT	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	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	---
Free Water	scalar	*Visual		**NEG**	NEG	---

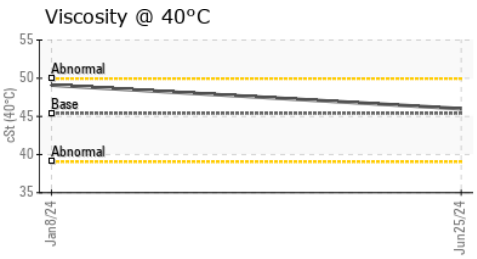
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.4	**46.0**	49.1	---

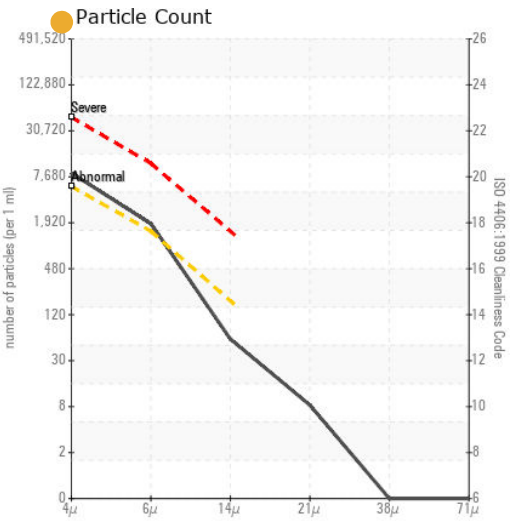
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

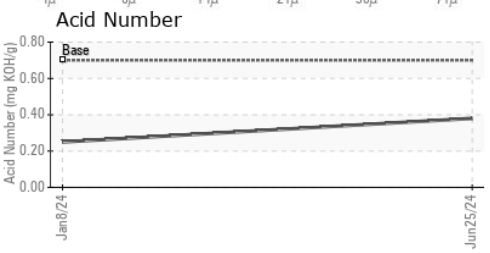
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0122855
Lab Number : 06224998
Unique Number : 11103195
Test Package : FLEET (Additional Tests: PrtCount)

Received : 01 Jul 2024
Tested : 02 Jul 2024
Diagnosed : 02 Jul 2024 - Wes Davis

Certificate L2367

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)

GFL Environmental - 837 - Harrison TS
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Harrisonville, MO
US 64701
Contact: SARA PATRICK
spatrick@gflenv.com
T:
F:

Report Id: GFL837 [WUSCAR] 06224998 (Generated: 07/02/2024 16:29:45) Rev: 1

Submitted By: JEREMY BROWN