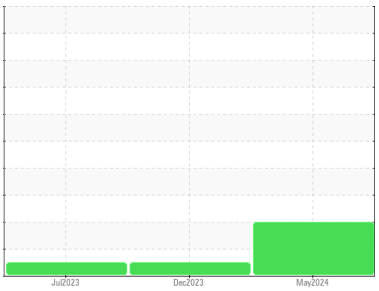
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
#813091
Component
Center Left Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (250 LTR)

DIAGNOSIS

Recommendation
Nous vous recommandons de remplacer le filtre et d`utiliser un système de filtrage hors-ligne afin d`améliorer la propreté du fluide. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation. (Customer Sample Comment: Top Up Amount: 20 LTR)

Wear
Les taux d`usure de tous les composants sont normaux.

Contamination
Il y a une quantité modérée de matières particulaires (2 à 100 µm de taille) présente dans l`huile.

Fluid Condition
l`huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0113519**	GFL0091122	GFL0079101
Sample Date		Client Info		**28 May 2024**	13 Dec 2023	03 Jul 2023
Machine Age	hrs	Client Info		**3757**	2821	1703
Oil Age	hrs	Client Info		**3757**	2821	1703
Oil Changed		Client Info		**Oil Added**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	NORMAL

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

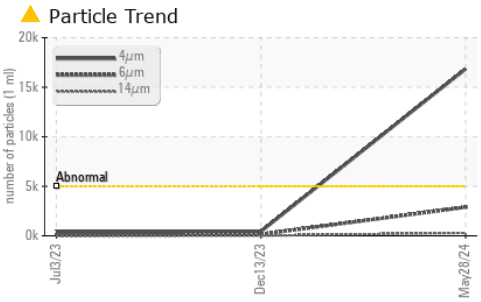
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>40	**4**	3	3
Chromium	ppm	ASTM D5185(m)	>5	**1**	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	**0**	0	0
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>8	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>5	**0**	<1	0
Copper	ppm	ASTM D5185(m)	>20	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)	>2	**0**	0	0
Antimony	ppm	ASTM D5185(m)	>2	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

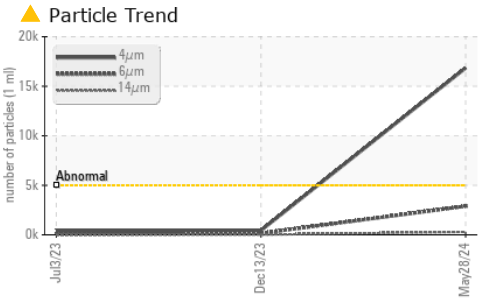
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**<1**	<1	<1
Barium	ppm	ASTM D5185(m)	0	**<1**	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	**0**	0	0
Manganese	ppm	ASTM D5185(m)	1	**0**	0	0
Magnesium	ppm	ASTM D5185(m)	0	**1**	<1	1
Calcium	ppm	ASTM D5185(m)	50	**49**	50	50
Phosphorus	ppm	ASTM D5185(m)	330	**320**	324	347
Zinc	ppm	ASTM D5185(m)	430	**400**	420	414
Sulfur	ppm	ASTM D5185(m)	760	**736**	749	763
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

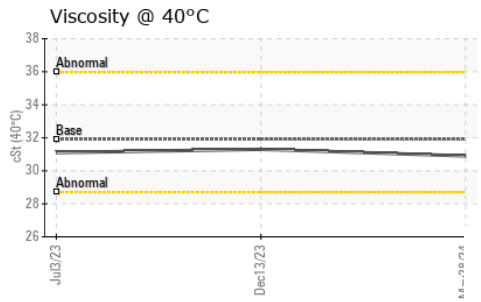
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**2**	2	2
Sodium	ppm	ASTM D5185(m)		**4**	2	2
Potassium	ppm	ASTM D5185(m)	>20	**4**	1	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **16840**	437	426
Particles >6µm		ASTM D7647	>1300	▲ **2895**	151	62
Particles >14µm		ASTM D7647	>160	● **296**	13	5
Particles >21µm		ASTM D7647	>40	▲ **82**	4	2
Particles >38µm		ASTM D7647	>10	**7**	1	0
Particles >71µm		ASTM D7647	>3	**1**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/19/15**	16/14/11	16/13/10

OIL ANALYSIS REPORT



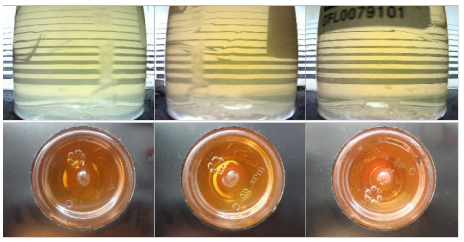




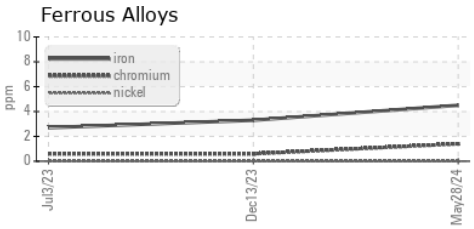
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Appearance	scalar	Visual*	NORML	**NORML**	NORML	NORML
Odor	scalar	Visual*	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	**NEG**	NEG	NEG
Free Water	scalar	Visual*		**NEG**	NEG	NEG

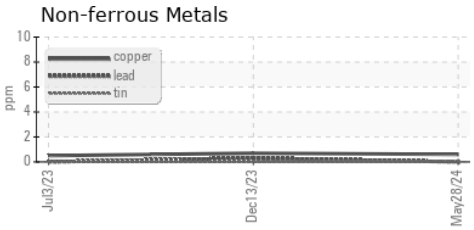
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	**30.9**	31.3	31.1

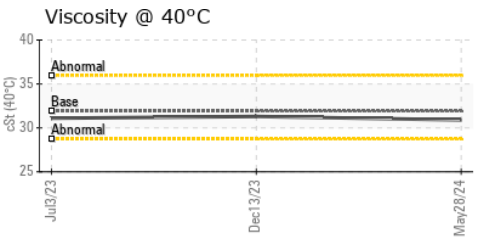
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

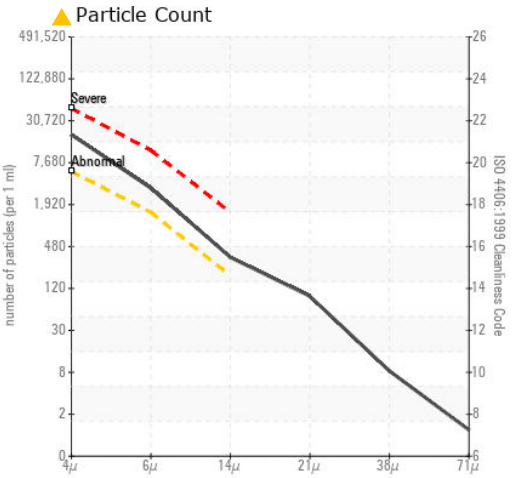


GRAPHS









ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113519 **Received** : 10 Jun 2024
Lab Number : 02640806 **Tested** : 11 Jun 2024
Unique Number : 5789968 **Diagnosed** : 11 Jun 2024 - 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.

Matrec - 791 - Rimouski
350 Avenue de L`Industrie
Rimouski, QC
CA G5M 1W4
Contact: Vincent Maltais
info@foretsstar.com
T: 4(18)388-2626
F: (418)388-2038