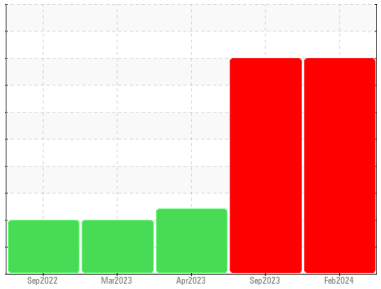
OIL ANALYSIS REPORT

Machine Id
711037
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)

Sample Rating Trend



ISO

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier tous les endroits par lesquels des contaminants peuvent pénétrer dans le système. Nous avons pris note que la vidange d`huile a été effectuée au moment de l`échantillonnage. Le reniflard d`air doit être réparé. S`il n`est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessicant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il y a une quantité élevée 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		**GFL0107603**	GFL0088895	GFL0073455
Sample Date		Client Info		**21 Feb 2024**	12 Sep 2023	26 Apr 2023
Machine Age	kms	Client Info		**0**	79238	4177
Oil Age	kms	Client Info		**0**	0	1200
Oil Changed		Client Info		**Changed**	Not Changd	Not Changd
Sample Status				**SEVERE**	SEVERE	SEVERE

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)	>50	**8**	10	11
Chromium	ppm	ASTM D5185(m)	>10	**<1**	<1	1
Nickel	ppm	ASTM D5185(m)	>4	**0**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	<1
Silver	ppm	ASTM D5185(m)		**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>5	**1**	1	1
Lead	ppm	ASTM D5185(m)	>4	**0**	<1	<1
Copper	ppm	ASTM D5185(m)	>15	**<1**	1	1
Tin	ppm	ASTM D5185(m)	>4	**0**	0	0
Antimony	ppm	ASTM D5185(m)		**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

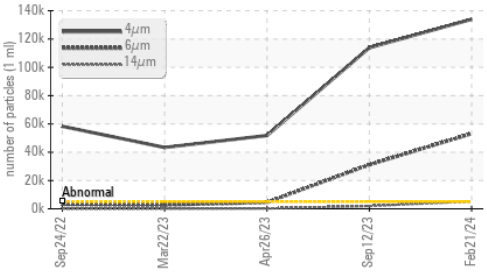
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**0**	<1	<1
Barium	ppm	ASTM D5185(m)	0	**0**	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	**0**	<1	2
Manganese	ppm	ASTM D5185(m)	1	**0**	0	<1
Magnesium	ppm	ASTM D5185(m)	0	**9**	20	31
Calcium	ppm	ASTM D5185(m)	50	**67**	84	90
Phosphorus	ppm	ASTM D5185(m)	330	**351**	384	378
Zinc	ppm	ASTM D5185(m)	430	**436**	505	434
Sulfur	ppm	ASTM D5185(m)	760	**825**	892	830
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**3**	4	4
Sodium	ppm	ASTM D5185(m)		**4**	7	11
Potassium	ppm	ASTM D5185(m)	>20	**1**	<1	<1

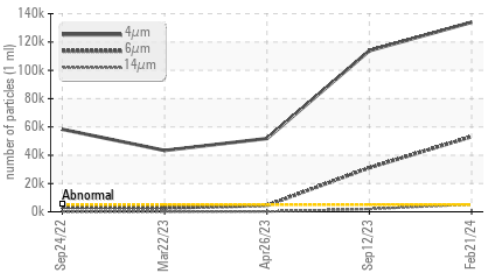
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **133952**	▲ 113838	▲ 51798
Particles >6µm		ASTM D7647	>1300	▲ **53168**	▲ 31172	▲ 4519
Particles >14µm		ASTM D7647	>160	▲ **5247**	▲ 1942	● 217
Particles >21µm		ASTM D7647	>40	▲ **1394**	▲ 449	49
Particles >38µm		ASTM D7647	>10	▲ **64**	▲ 21	1
Particles >71µm		ASTM D7647	>3	**2**	2	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **24/23/20**	▲ 24/22/18	▲ 23/19/15

OIL ANALYSIS REPORT

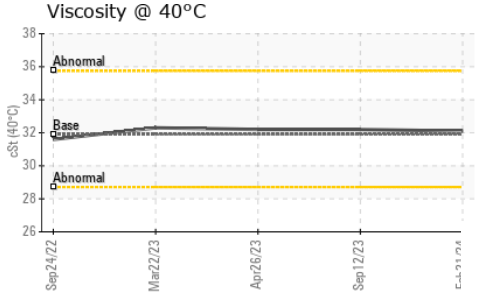
Particle Trend



Particle Trend



Viscosity @ 40°C



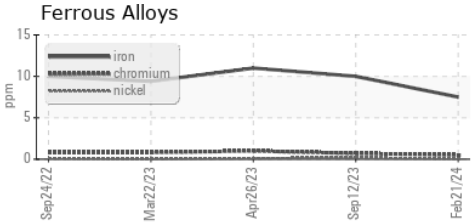
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	**LIGHT**	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	**32.1**	32.2	32.2

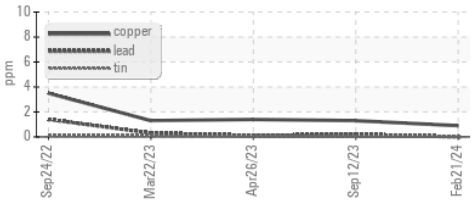
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

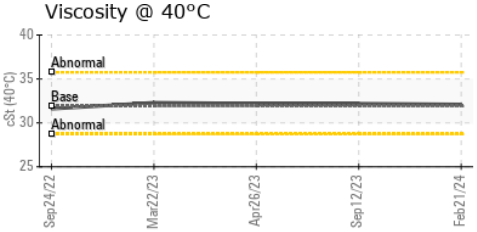
Ferrous Alloys



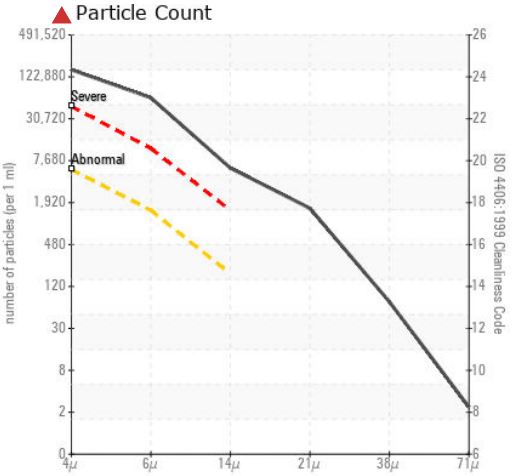
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107603
Lab Number : 02619724
Unique Number : 5736834
Test Package : MOB 1 (Additional Tests: PrtCount)

Received : 04 Mar 2024
Tested : 05 Mar 2024
Diagnosed : 05 Mar 2024 - Wes Davis

GFL Environmental - 747 - GMA - Solid Waste
4 Chemin du Tremblay,
Boucherville, QC
CA J4B 6Z5
Contact: Steve Voyer
svoyer@matrec.ca
T:
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.