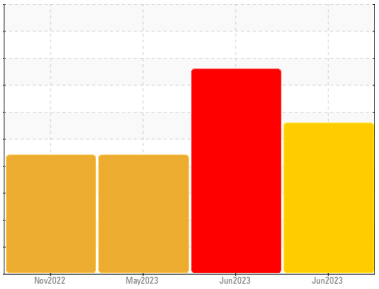
OIL ANALYSIS REPORT

Machine Id
9255
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 vous recommandons de vérifier la présence de particules métalliques visibles dans l`huile. Nous vous recommandons de remplacer le filtre et d`utiliser un système de filtrage hors-ligne afin d`améliorer la propreté du fluide. 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

Présence d`une faible concentration de métal visible.

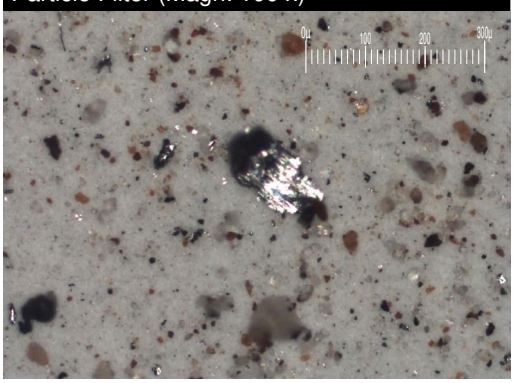
Contamination

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

Fluid Condition

l`huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Particle Filter (Magn: 100 x)



SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**GFL0084474**	GFL0073434	GFL0073457
Sample Date		Client Info		**22 Jun 2023**	15 Jun 2023	03 May 2023
Machine Age	kms	Client Info		**354046**	353116	16264
Oil Age	kms	Client Info		**0**	1200	1200
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**SEVERE**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>50	**6**	10	6
Chromium	ppm	ASTM D5185(m)	>10	**2**	1	1
Nickel	ppm	ASTM D5185(m)	>4	**<1**	0	<1
Titanium	ppm	ASTM D5185(m)		**0**	<1	<1
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>5	**<1**	<1	1
Lead	ppm	ASTM D5185(m)	>4	**0**	0	0
Copper	ppm	ASTM D5185(m)	>15	**<1**	<1	<1
Tin	ppm	ASTM D5185(m)	>4	**0**	0	0
Antimony	ppm	ASTM D5185(m)		**0**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

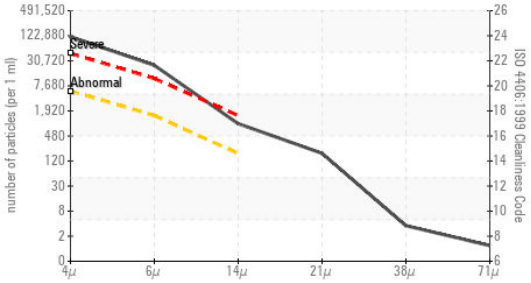
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	0	**<1**	<1	<1
Barium	ppm	ASTM D5185(m)	0	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	0	**<1**	<1	<1
Manganese	ppm	ASTM D5185(m)	1	**0**	<1	0
Magnesium	ppm	ASTM D5185(m)	0	**4**	4	5
Calcium	ppm	ASTM D5185(m)	50	**60**	62	62
Phosphorus	ppm	ASTM D5185(m)	330	**367**	366	366
Zinc	ppm	ASTM D5185(m)	430	**423**	435	418
Sulfur	ppm	ASTM D5185(m)	760	**776**	814	802
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>15	**2**	1	2
Sodium	ppm	ASTM D5185(m)		**3**	3	4
Potassium	ppm	ASTM D5185(m)	>20	**<1**	1	<1

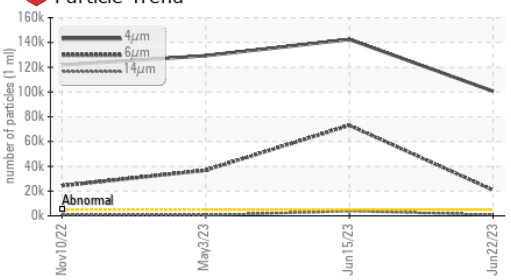
FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>5000	**100629**	142488	129305
Particles >6µm		ASTM D7647	>1300	**20760**	73045	36790
Particles >14µm		ASTM D7647	>160	**831**	3748	506
Particles >21µm		ASTM D7647	>40	**162**	479	102
Particles >38µm		ASTM D7647	>10	**3**	1	4
Particles >71µm		ASTM D7647	>3	**1**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**24/22/17**	24/23/19	24/22/16

OIL ANALYSIS REPORT

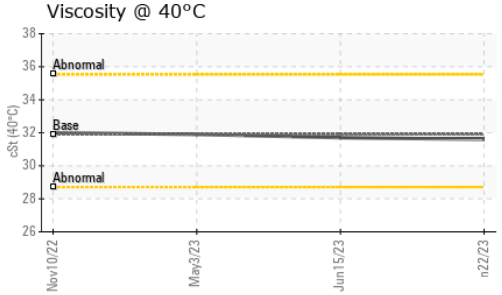
Particle Count



Particle Trend

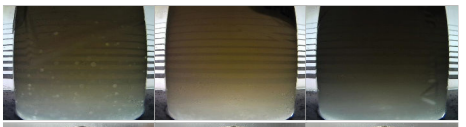


Viscosity @ 40°C



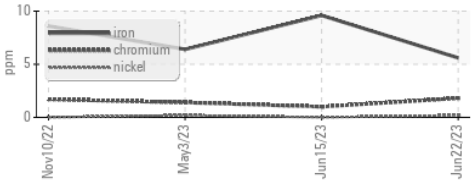
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	Visual*	NONE	▲ **VLITE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	**NONE**	LIGHT	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	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	**31.6**	31.7	31.9

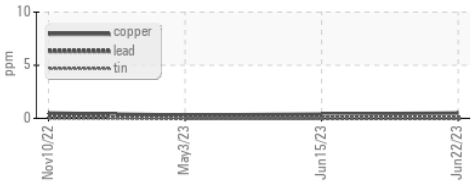
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					
PrtFilter				*no image*	*no image*

GRAPHS

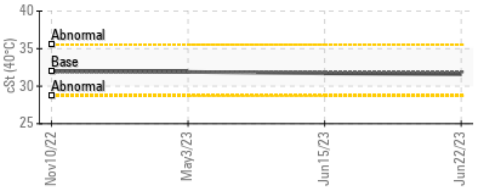
Ferrous Alloys



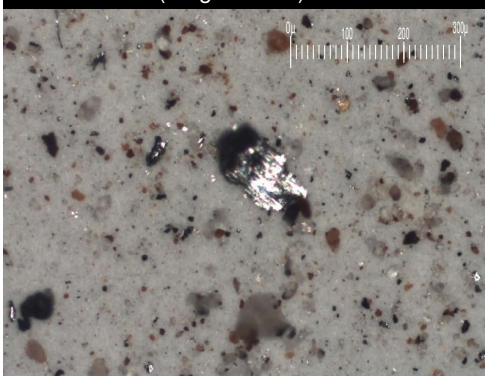
Non-ferrous Metals



Viscosity @ 40°C



Particle Filter (Magn: 100 x)



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 780 - GMA - ICI - Solid Waste**
Sample No. : GFL0084474 **Received** : 10 Jul 2023 4365 boul. St-Elzear Ouest,
Lab Number : 02568828 **Diagnosed** : 11 Jul 2023 Laval, QC
Unique Number : 5605874 **Diagnostician** : Kevin Marson CA H7P 4J3
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PrtCount, PrtFilter) Contact: Pieces Laval
pieces.laval@gflenv.com
T: (450)687-3838
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.