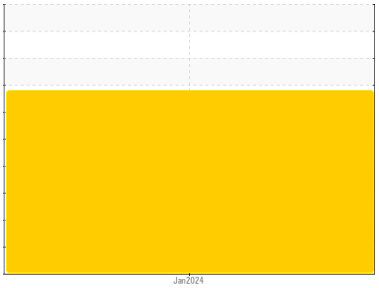
OIL ANALYSIS REPORT

Machine Id
919005
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)

Sample Rating Trend



ISO

DIAGNOSIS

Recommendation

Vérifier les scelles et/ou les filters pour des points d'entrée des contaminants. Nous vous recommandons de vérifier tous les endroits par lesquels de la saleté peut pénétrer dans le système. 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. Nous avons pris note que le filtre a été remplacé au moment de l`échantillonnage. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

Wear

Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

Contamination

Il y a une grande quantité de limon (particules de 4 à 14 microns) dans l`huile. Les niveaux élémentaires de silicone (Si) et d`aluminium (Al) indiquent l`infiltration d`alumine-silicate (grosses particules de poussière). Une grande quantité de saleté a provoqué une usure abrasive du composant.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0107576**	---	---
Sample Date		Client Info		**26 Jan 2024**	---	---
Machine Age	kms	Client Info		**235400**	---	---
Oil Age	kms	Client Info		**0**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**SEVERE**	---	---

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

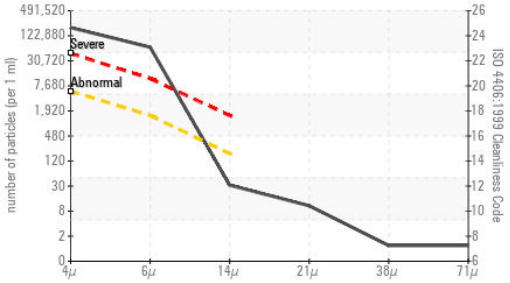
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**0**	---	---
Iron	ppm	ASTM D5185(m)	>50	▲ **58**	---	---
Chromium	ppm	ASTM D5185(m)	>10	**4**	---	---
Nickel	ppm	ASTM D5185(m)	>4	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>5	▲ **6**	---	---
Lead	ppm	ASTM D5185(m)	>4	**0**	---	---
Copper	ppm	ASTM D5185(m)	>15	**<1**	---	---
Tin	ppm	ASTM D5185(m)	>4	**0**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**<1**	---	---
Barium	ppm	ASTM D5185(m)	0	**0**	---	---
Molybdenum	ppm	ASTM D5185(m)	0	**0**	---	---
Manganese	ppm	ASTM D5185(m)	1	**0**	---	---
Magnesium	ppm	ASTM D5185(m)	0	**10**	---	---
Calcium	ppm	ASTM D5185(m)	50	**82**	---	---
Phosphorus	ppm	ASTM D5185(m)	330	**344**	---	---
Zinc	ppm	ASTM D5185(m)	430	**439**	---	---
Sulfur	ppm	ASTM D5185(m)	760	**857**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

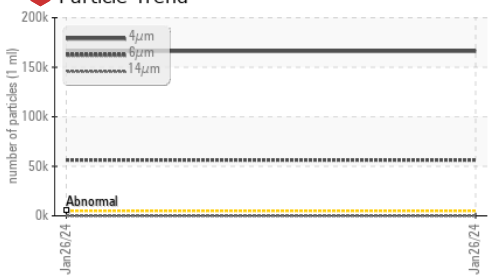
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	▲ **19**	---	---
Sodium	ppm	ASTM D5185(m)		**19**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**3**	---	---

OIL ANALYSIS REPORT

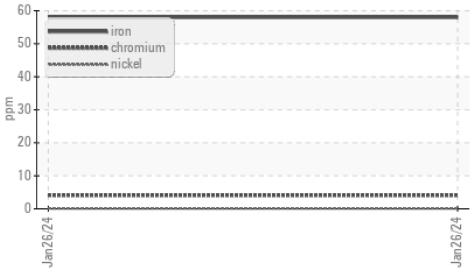
Particle Count



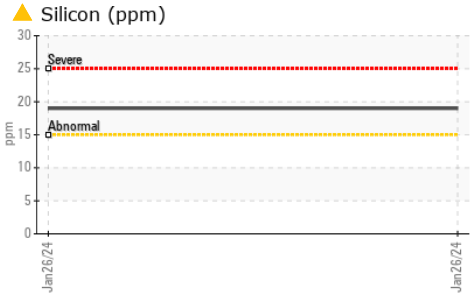
Particle Trend



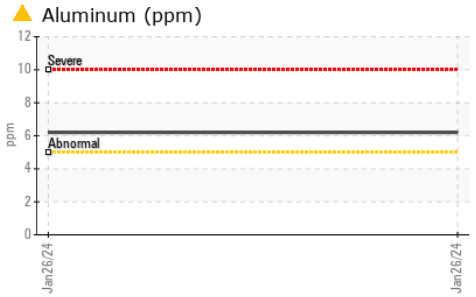
Ferrous Alloys



Silicon (ppm)



Aluminum (ppm)



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	**166220**	---	---
Particles >6µm	ASTM D7647	>1300	**56321**	---	---
Particles >14µm	ASTM D7647	>160	**28**	---	---
Particles >21µm	ASTM D7647	>40	**9**	---	---
Particles >38µm	ASTM D7647	>10	**1**	---	---
Particles >71µm	ASTM D7647	>3	**1**	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	**25/23/12**	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.9	**32.3**	---	---

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

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107576
Lab Number : 02612527
Unique Number : 5721622
Test Package : MOB 1 (Additional Tests: PQ, PrtCount)

Received : 31 Jan 2024
Tested : 01 Feb 2024
Diagnosed : 01 Feb 2024 - Bill Quesnel

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.

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