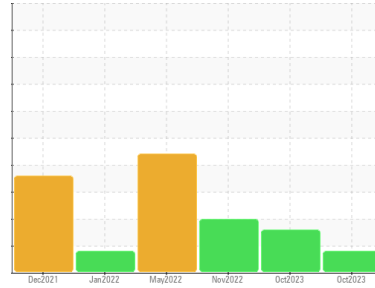




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
701089

Component
Hydraulic System

Fluid
PETRO CANADA HYDREX MV 32 (--- GAL)

DIAGNOSIS

Recommendation

Nous recommandons le remplacement des filtres de ce composant. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

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

Contamination

Il y a une légère quantité de limon (particules de 4 à 14 microns) dans l'huile.

Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	GFL0096416	GFL0096427	GFL0061765	
Sample Date	Client Info	24 Oct 2023	13 Oct 2023	17 Nov 2022	
Machine Age	hrs	Client Info	11160	11100	9173
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info	Not Chngd	Not Chngd	N/A	
Sample Status		ATTENTION	ABNORMAL	ABNORMAL	

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >40	9	10	2
Chromium	ppm	ASTM D5185(m) >5	4	4	1
Nickel	ppm	ASTM D5185(m) >2	0	<1	<1
Titanium	ppm	ASTM D5185(m) >2	0	0	0
Silver	ppm	ASTM D5185(m)	<1	<1	<1
Aluminum	ppm	ASTM D5185(m) >8	<1	<1	0
Lead	ppm	ASTM D5185(m) >5	0	<1	0
Copper	ppm	ASTM D5185(m) >20	2	2	0
Tin	ppm	ASTM D5185(m) >2	0	0	0
Antimony	ppm	ASTM D5185(m) >2	0	0	<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	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	55	54	54
Phosphorus	ppm	ASTM D5185(m) 330	338	331	361
Zinc	ppm	ASTM D5185(m) 430	420	425	419
Sulfur	ppm	ASTM D5185(m) 760	760	750	773
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

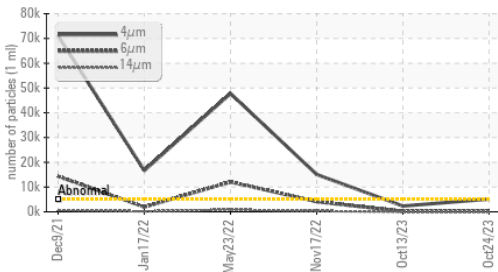
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >20	1	2	<1
Sodium	ppm	ASTM D5185(m)	3	3	<1
Potassium	ppm	ASTM D5185(m) >20	<1	<1	<1

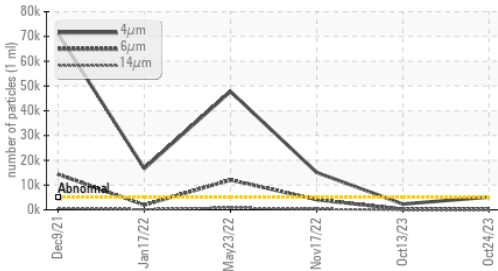
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 5142	2336	▲ 15079
Particles >6µm	ASTM D7647 >1300	294	196	▲ 4100
Particles >14µm	ASTM D7647 >160	11	11	▲ 290
Particles >21µm	ASTM D7647 >40	2	4	▲ 75
Particles >38µm	ASTM D7647 >10	1	1	1
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 20/15/11	18/15/11	▲ 21/19/15

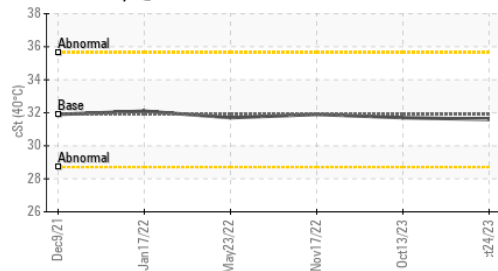
Particle Trend



Particle Trend



Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	▲ VLITE	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	VLITE
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	31.6	31.7	31.9

SAMPLE IMAGES

method	limit/base	current	history1	history2	
Color					
Bottom					
PrtFilter			no image		no image

GRAPHS

<h4>Ferrous Alloys</h4>	<h4>Particle Count</h4>
<h4>Non-ferrous Metals</h4>	
<h4>Viscosity @ 40°C</h4>	



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 747 - GMA - Solid Waste
Sample No. : GFL0096416 **Received** : 26 Oct 2023
Lab Number : 02592167 **Diagnosed** : 30 Oct 2023
Unique Number : 5669246 **Diagnostician** : Wes Davis
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.