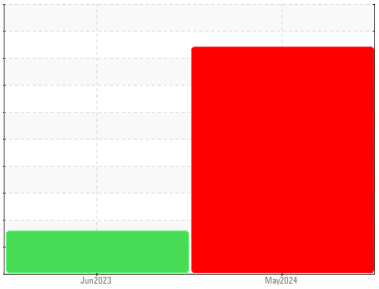
OIL ANALYSIS REPORT

Machine Id
FREIGHTLINER 820059
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (--- 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 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. Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation. Le fluide était spécifié comme PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL, toutefois, une comparaison avec d'autres fluides indiqu que ce fluide est du ISO 32 AW Hydraulic Oil. Veuillez confirmer la viscosité de l`huile et veuillez préciser la marque de votre prochain échantillon.

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
La viscosité de l'échantillon se situe dans la portée de l'ISO 32; nous vous conseillons de vérifier. Ceci, en plus des niveaux d`additifs, indique que la marque ou le type d`huile ne correspond pas à ce qui a été signalé. 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		**PC0088234**	GFL0080941	---
Sample Date		Client Info		**22 May 2024**	19 Jun 2023	---
Machine Age	hrs	Client Info		**7231**	5583	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**SEVERE**	ABNORMAL	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>40	**11**	8	---
Chromium	ppm	ASTM D5185(m)	>5	**3**	2	---
Nickel	ppm	ASTM D5185(m)	>2	**0**	<1	---
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	---
Silver	ppm	ASTM D5185(m)		**0**	0	---
Aluminum	ppm	ASTM D5185(m)	>8	**1**	<1	---
Lead	ppm	ASTM D5185(m)	>5	**0**	0	---
Copper	ppm	ASTM D5185(m)	>20	**1**	2	---
Tin	ppm	ASTM D5185(m)	>2	**0**	0	---
Antimony	ppm	ASTM D5185(m)	>2	**0**	<1	---
Vanadium	ppm	ASTM D5185(m)		**0**	0	---
Beryllium	ppm	ASTM D5185(m)		**0**	0	---
Cadmium	ppm	ASTM D5185(m)		**0**	0	---

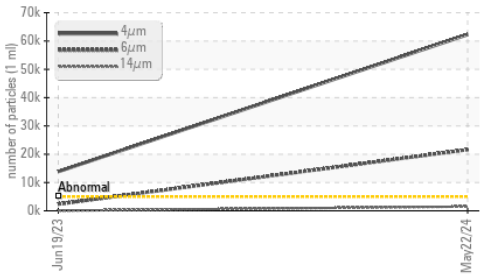
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**3**	3	---
Barium	ppm	ASTM D5185(m)	0	**<1**	0	---
Molybdenum	ppm	ASTM D5185(m)	0	**<1**	1	---
Manganese	ppm	ASTM D5185(m)	1	**<1**	<1	---
Magnesium	ppm	ASTM D5185(m)	0	**15**	15	---
Calcium	ppm	ASTM D5185(m)	100	**92**	92	---
Phosphorus	ppm	ASTM D5185(m)	670	**380**	428	---
Zinc	ppm	ASTM D5185(m)	850	**473**	487	---
Sulfur	ppm	ASTM D5185(m)	1600	**931**	1006	---
Lithium	ppm	ASTM D5185(m)		**<1**	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**3**	3	---
Sodium	ppm	ASTM D5185(m)		**6**	5	---
Potassium	ppm	ASTM D5185(m)	>20	**7**	6	---

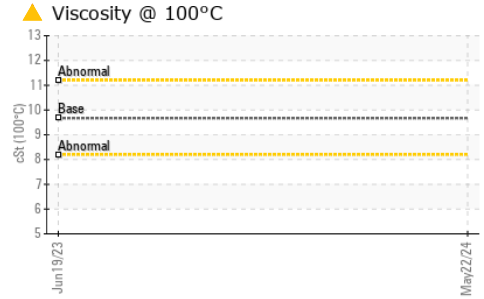
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**62278**	13859	---
Particles >6µm		ASTM D7647	>1300	**21607**	2369	---
Particles >14µm		ASTM D7647	>160	**1496**	49	---
Particles >21µm		ASTM D7647	>40	**270**	5	---
Particles >38µm		ASTM D7647	>10	**8**	1	---
Particles >71µm		ASTM D7647	>3	**1**	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**23/22/18**	21/18/13	---

OIL ANALYSIS REPORT

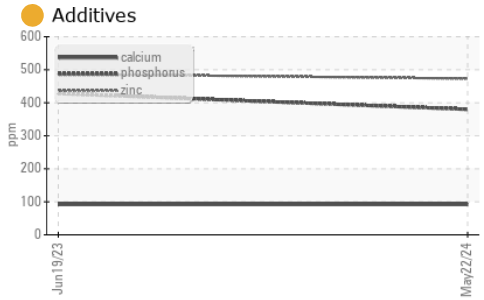
Particle Trend



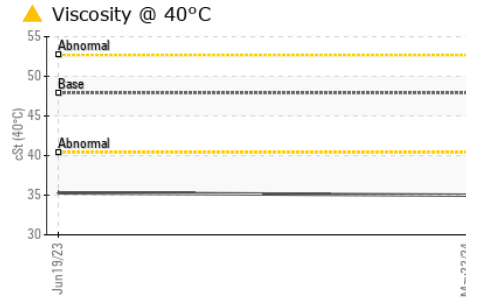
Viscosity @ 100°C



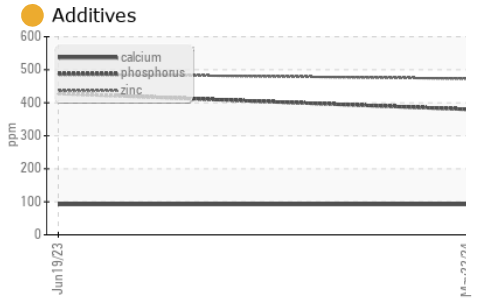
Additives



Viscosity @ 40°C

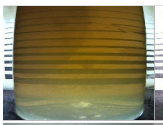
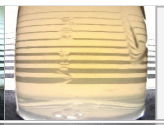


Additives



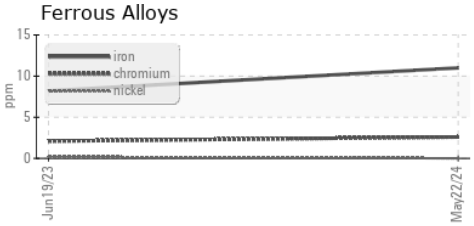
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	---
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	---
Silt	scalar	Visual*	NONE	**VLITE**	NONE	---
Debris	scalar	Visual*	NONE	**VLITE**	NONE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.9	▲ **35.0**	▲ 35.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	▲ **6.5**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	192	▲ **141**	---	---

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

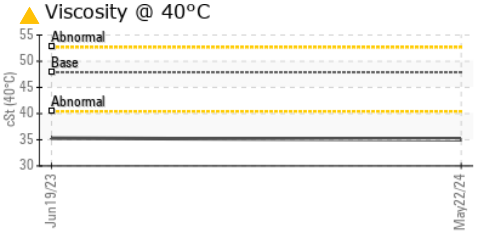
GRAPHS

Ferrous Alloys

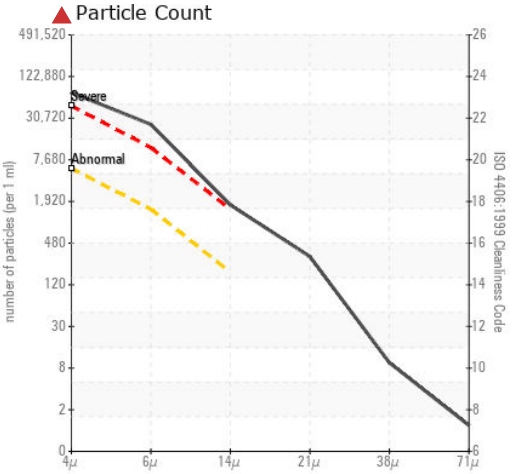


Non-ferrous Metals

Viscosity @ 40°C



Particle Count



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088234
Lab Number : 02637509
Unique Number : 5786671
Test Package : MOB 1 (Additional Tests: KV100, PrtCount, VI)

Received : 24 May 2024
Tested : 27 May 2024
Diagnosed : 27 May 2024 - Kevin Marson

GFL Environmental 791MAT - Matane
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Matane, QC
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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.