OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id
OR425
Component
Hydraulic System
Fluid
CAT TDTO 30W (--- GAL)

DIAGNOSIS

Recommendation
Nous recommandons le remplacement des filtres de ce composant. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear
Usure de segment.

Contamination
Il y a une quantité modérée de particules (de 4 à 14 microns) dans l`huile.

Fluid Condition
La viscosité de l'échantillon se situe dans la portée de l'SAE 10W; 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 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		**GFL0097088**	---	---
Sample Date		Client Info		**10 Nov 2023**	---	---
Machine Age	hrs	Client Info		**18125**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	**18**	---	---
Chromium	ppm	ASTM D5185(m)	>10	▲ **11**	---	---
Nickel	ppm	ASTM D5185(m)	>10	**0**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>10	**2**	---	---
Lead	ppm	ASTM D5185(m)	>10	**<1**	---	---
Copper	ppm	ASTM D5185(m)	>75	**1**	---	---
Tin	ppm	ASTM D5185(m)	>10	**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**	---	---

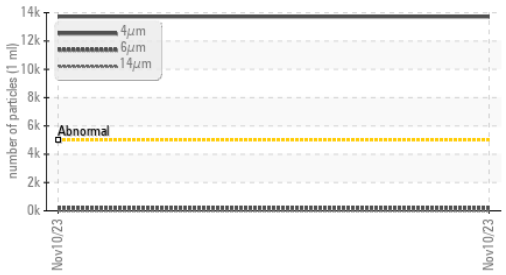
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**5**	---	---
Barium	ppm	ASTM D5185(m)		**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)		**<1**	---	---
Manganese	ppm	ASTM D5185(m)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)		**14**	---	---
Calcium	ppm	ASTM D5185(m)	2980	**1153**	---	---
Phosphorus	ppm	ASTM D5185(m)	1100	**726**	---	---
Zinc	ppm	ASTM D5185(m)	1270	**824**	---	---
Sulfur	ppm	ASTM D5185(m)		**1978**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	**6**	---	---
Sodium	ppm	ASTM D5185(m)		**2**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---

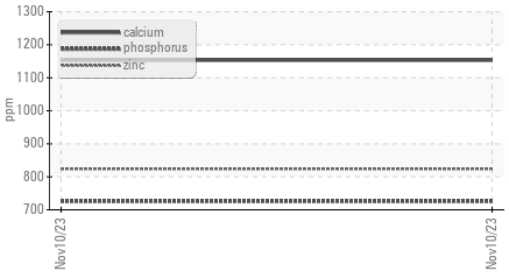
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **13717**	---	---
Particles >6µm		ASTM D7647	>1300	**206**	---	---
Particles >14µm		ASTM D7647	>160	**7**	---	---
Particles >21µm		ASTM D7647	>40	**2**	---	---
Particles >38µm		ASTM D7647	>10	**1**	---	---
Particles >71µm		ASTM D7647	>3	**1**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **21/15/10**	---	---

OIL ANALYSIS REPORT

Particle Trend

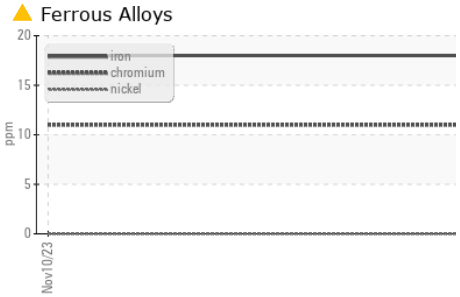


Additives

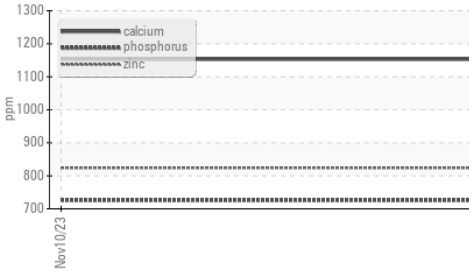


Particle Trend

Ferrous Alloys



Additives



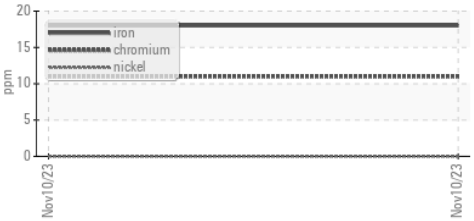
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
Silt	scalar	Visual*	NONE	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	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)	100	▲ **38.1**	---	---

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

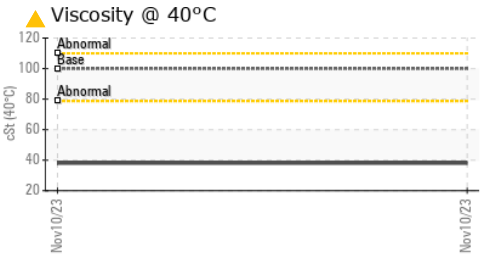
GRAPHS

Ferrous Alloys

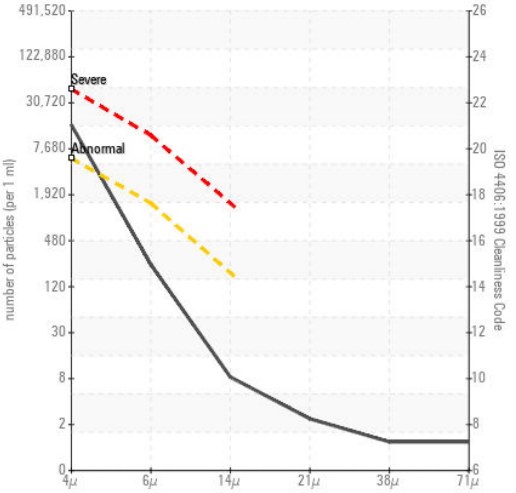


Non-ferrous Metals

Viscosity @ 40°C



Particle Count



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 780 - GMA - ICI - Solid Waste**
Sample No. : GFL0097088 **Received** : 14 Nov 2023
Lab Number : 02596245 **Diagnosed** : 15 Nov 2023
Unique Number : 5681325 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PrtCount)

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Laval, QC
CA H7P 4J3
Contact: Louis Michaud
louis.michaus@gflenv.com
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.