OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id
FREIGHTLINER 427151
Component
1 Differential
Fluid
SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation
Nous vous recommandons de vidanger l`huile de ce composant si vous ne l`avez pas déjà fait. Nous vous recommandons d`échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear
Usure de rondelle de butée et (ou) de palier et (ou) de douille.

Contamination
Il n`y a aucun indice de contamination dans l`huile.

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		**PC0088349**	---	---
Sample Date		Client Info		**25 Jun 2024**	---	---
Machine Age	hrs	Client Info		**13570**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	**147**	---	---
Chromium	ppm	ASTM D5185(m)	>10	**1**	---	---
Nickel	ppm	ASTM D5185(m)	>10	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**<1**	---	---
Silver	ppm	ASTM D5185(m)		**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>25	**<1**	---	---
Lead	ppm	ASTM D5185(m)	>25	**3**	---	---
Copper	ppm	ASTM D5185(m)	>100	▲ **135**	---	---
Tin	ppm	ASTM D5185(m)	>10	**1**	---	---
Antimony	ppm	ASTM D5185(m)	>5	**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)	200	**59**	---	---
Barium	ppm	ASTM D5185(m)	0	**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	0	**1**	---	---
Manganese	ppm	ASTM D5185(m)		**4**	---	---
Magnesium	ppm	ASTM D5185(m)	0	**6**	---	---
Calcium	ppm	ASTM D5185(m)	20	**35**	---	---
Phosphorus	ppm	ASTM D5185(m)	1000	**583**	---	---
Zinc	ppm	ASTM D5185(m)	20	**20**	---	---
Sulfur	ppm	ASTM D5185(m)	22000	**14352**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	**7**	---	---
Sodium	ppm	ASTM D5185(m)	>50	**2**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**27**	---	---

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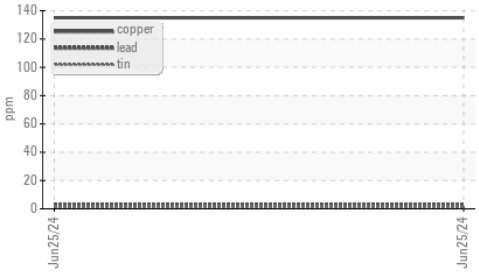
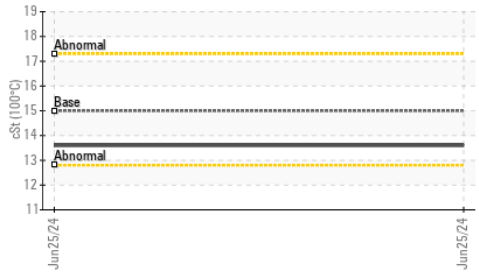
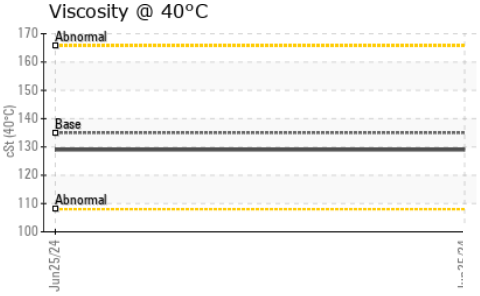
Non-ferrous Metals



Viscosity @ 100°C



Viscosity @ 40°C



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*	>.2	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	135	**129**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	**13.6**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	112	**100**	---	---

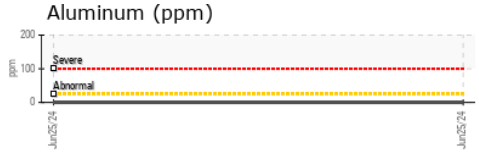
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

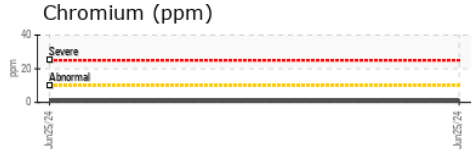
Iron (ppm)

Lead (ppm)

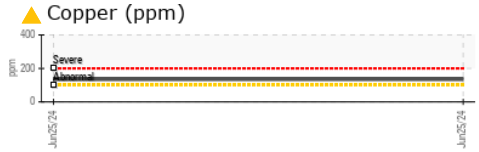
Aluminum (ppm)



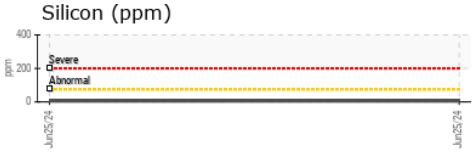
Chromium (ppm)



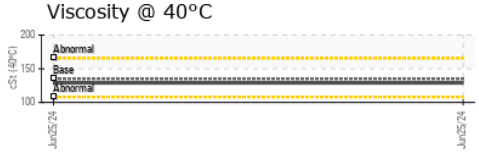
Copper (ppm)



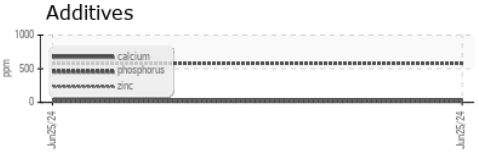
Silicon (ppm)



Viscosity @ 40°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088349
Lab Number : 02644655
Unique Number : 5802194
Test Package : MOB 1 (Additional Tests: KV100, VI)

Received : 28 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 28 Jun 2024 - Kevin Marson

GFL Environmental 791MAT - Matane
29 rue Brilliant
Matane, QC
CA G4W 0J7
Contact: B Berube
bberube@matrec.ca
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.