

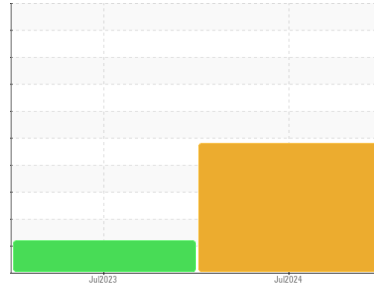
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id
FREIGHTLINER 820060
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)



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 dessiccant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

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 46; nous vous conseillons de vérifier. 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		PC0088367	GFL0080972	---
Sample Date	Client Info		05 Jul 2024	28 Jul 2023	---
Machine Age	hrs	Client Info	7194	5687	---
Oil Age	hrs	Client Info	1276	0	---
Oil Changed	Client Info		Not Chngd	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	2	8	---
Chromium	ppm	ASTM D5185(m) >5	1	3	---
Nickel	ppm	ASTM D5185(m) >2	<1	<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	0	---
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) 5	7	7	---
Barium	ppm	ASTM D5185(m) 5	0	0	---
Molybdenum	ppm	ASTM D5185(m) 5	3	2	---
Manganese	ppm	ASTM D5185(m)	0	<1	---
Magnesium	ppm	ASTM D5185(m) 25	40	18	---
Calcium	ppm	ASTM D5185(m) 200	164	136	---
Phosphorus	ppm	ASTM D5185(m) 300	648	403	---
Zinc	ppm	ASTM D5185(m) 370	845	449	---
Sulfur	ppm	ASTM D5185(m) 2500	1564	1006	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

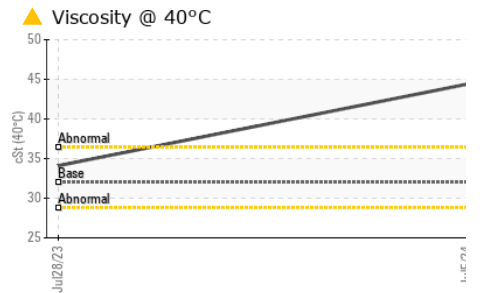
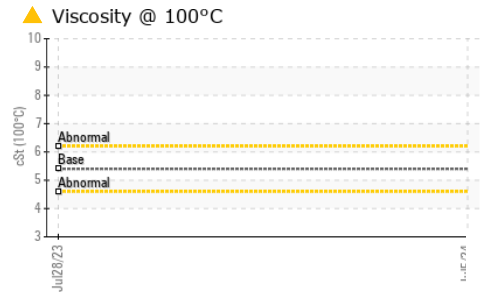
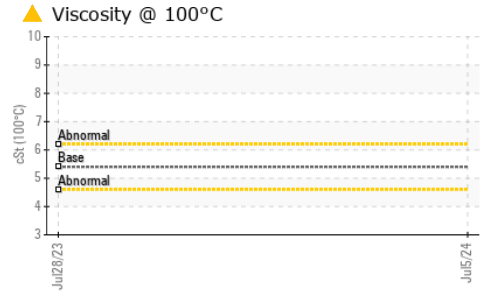
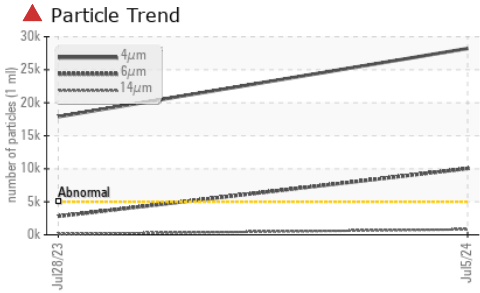
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	<1	3	---
Sodium	ppm	ASTM D5185(m)	1	5	---
Potassium	ppm	ASTM D5185(m) >20	1	6	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 28211	▲ 17893	---
Particles >6µm	ASTM D7647	>1300	▲ 10039	▲ 2805	---
Particles >14µm	ASTM D7647	>160	▲ 821	118	---
Particles >21µm	ASTM D7647	>40	▲ 169	23	---
Particles >38µm	ASTM D7647	>10	10	0	---
Particles >71µm	ASTM D7647	>3	1	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/21/17	▲ 21/19/14	---

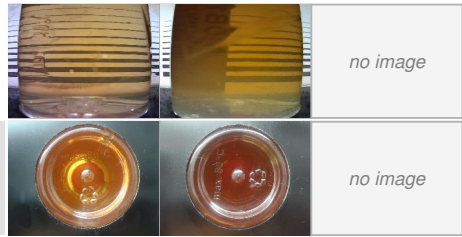
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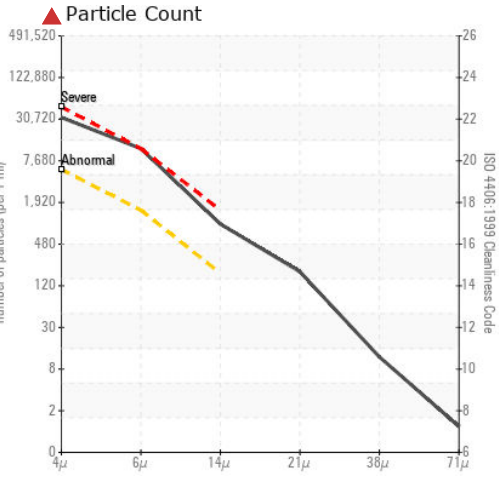
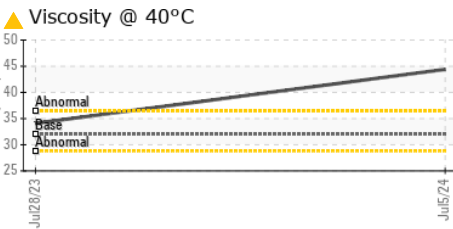
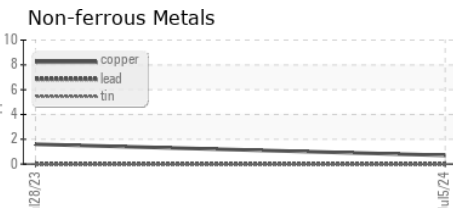
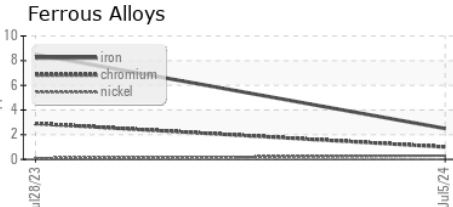
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	32	44.4	34.1
Visc @ 100°C	cSt	ASTM D7279(m)	5.4	8.7	
Viscosity Index (VI)	Scale	ASTM D2270*	102	179	

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental 791MAT - Matane**
Sample No. : PC0088367 **Received** : 11 Jul 2024 29 rue Brilliant
Lab Number : 02647349 **Tested** : 12 Jul 2024 Matane, QC
Unique Number : 5812901 **Diagnosed** : 12 Jul 2024 - Kevin Marson CA G4W 0J7
Test Package : MOB 1 (Additional Tests: Bottom, KV100, PrtCount, VI) Contact: B Berube
 bberube@matrec.ca

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.