



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
525146 FREIGHTLINER CASCADIA 125

Component
Gearbox
Fluid
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0105491	---	---
Sample Date	Client Info	27 Jan 2024	---	---
Machine Age	hrs	Client Info	15266	---
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	>0.2	NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	117	---
Chromium	ppm	ASTM D5185m	>10	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	2	---
Lead	ppm	ASTM D5185m	>50	<1	---
Copper	ppm	ASTM D5185m	>200	13	---
Tin	ppm	ASTM D5185m	>10	<1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	400	47	---
Barium	ppm	ASTM D5185m	200	0	---
Molybdenum	ppm	ASTM D5185m	12	<1	---
Manganese	ppm	ASTM D5185m		8	---
Magnesium	ppm	ASTM D5185m	12	11	---
Calcium	ppm	ASTM D5185m	150	102	---
Phosphorus	ppm	ASTM D5185m	1650	409	---
Zinc	ppm	ASTM D5185m	125	40	---
Sulfur	ppm	ASTM D5185m	22500	17503	---

CONTAMINANTS

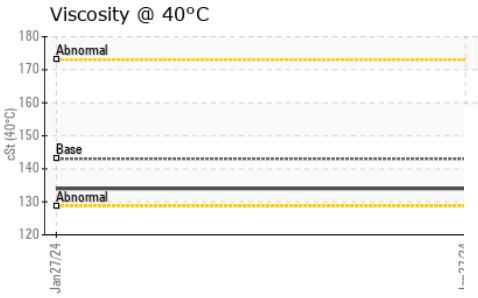
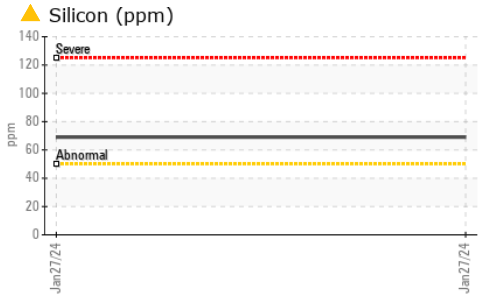
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	▲ 69	---
Sodium	ppm	ASTM D5185m	>170	2	---
Potassium	ppm	ASTM D5185m	>20	4	---

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	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---



OIL ANALYSIS REPORT

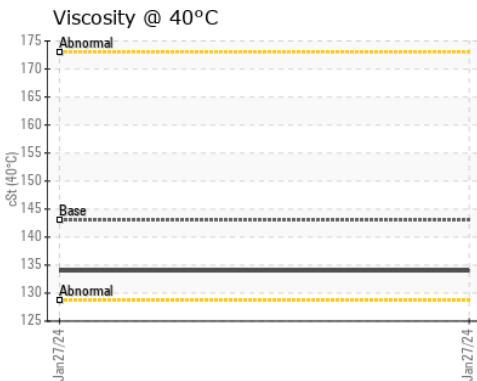
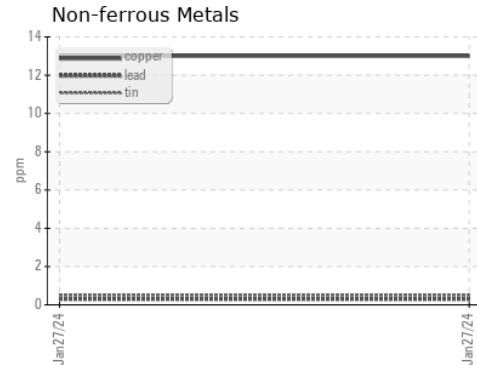
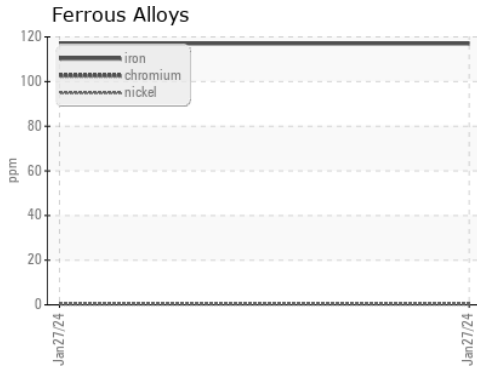


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	134	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0105491
Lab Number : 06077901
Unique Number : 10859992
Test Package : FLEET

Received : 01 Feb 2024
Tested : 06 Feb 2024
Diagnosed : 08 Feb 2024 - Jonathan Hester

GFL Environmental - 980 - Northside Hauling
 1820 Candle Ridge Park Dr
 Houston, TX
 US 77073
 Contact: Edwin Collins
 ecolins@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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