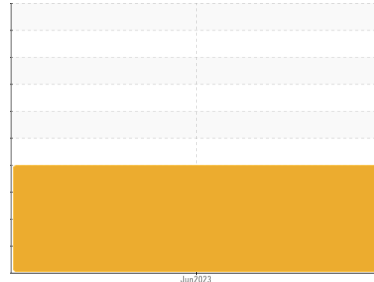




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
901122

Component
Front Differential

Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Wear

Gear wear is indicated.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	GFL0035429	---	---
Sample Date	Client Info	28 Jun 2023	---	---
Machine Age	hrs	0	---	---
Oil Age	hrs	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >500	▲ 616	---
Chromium	ppm	ASTM D5185m >10	6	---
Nickel	ppm	ASTM D5185m >10	▲ 14	---
Titanium	ppm	ASTM D5185m	<1	---
Silver	ppm	ASTM D5185m	0	---
Aluminum	ppm	ASTM D5185m >25	8	---
Lead	ppm	ASTM D5185m >25	2	---
Copper	ppm	ASTM D5185m >100	28	---
Tin	ppm	ASTM D5185m >10	▲ 23	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	<1	---

ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m 400	230	---
Barium	ppm	ASTM D5185m 200	0	---
Molybdenum	ppm	ASTM D5185m 12	0	---
Manganese	ppm	ASTM D5185m	13	---
Magnesium	ppm	ASTM D5185m 12	2	---
Calcium	ppm	ASTM D5185m 150	37	---
Phosphorus	ppm	ASTM D5185m 1650	1336	---
Zinc	ppm	ASTM D5185m 125	71	---
Sulfur	ppm	ASTM D5185m 22500	22596	---

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >75	▲ 196	---
Sodium	ppm	ASTM D5185m	3	---
Potassium	ppm	ASTM D5185m >20	9	---

VISUAL

method	limit/base	current	history 1	history 2
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	---

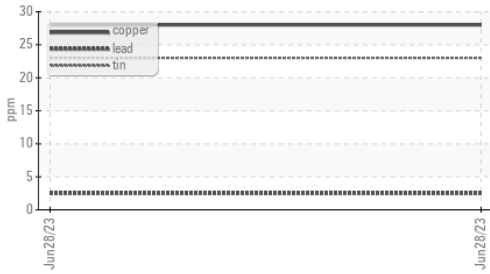
FLUID PROPERTIES

method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445 109	97.2	---



OIL ANALYSIS REPORT

▲ Non-ferrous Metals



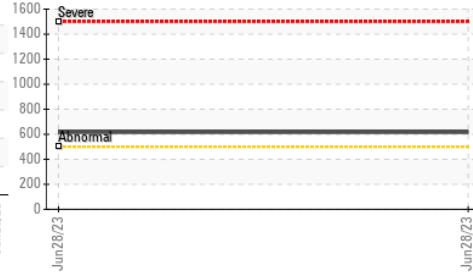
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

▲ Ferrous Alloys



▲ Iron (ppm)



▲ Lead (ppm)



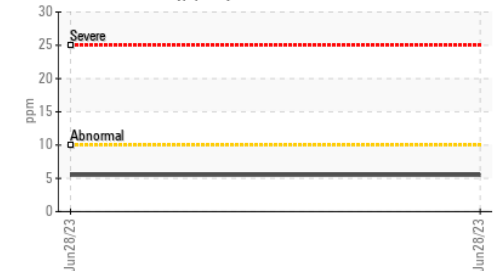
▲ Silicon (ppm)



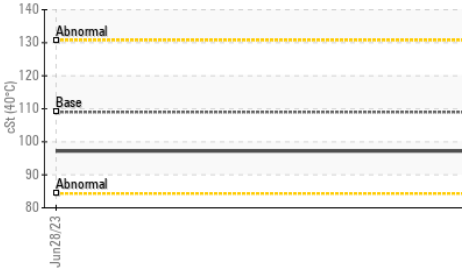
▲ Aluminum (ppm)



▲ Chromium (ppm)



▲ Viscosity @ 40°C



▲ Copper (ppm)



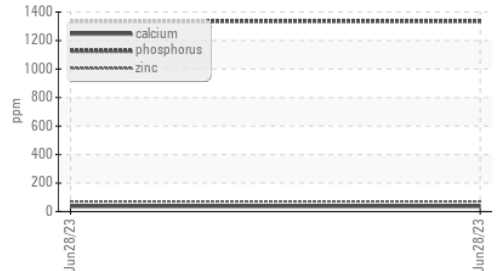
▲ Silicon (ppm)



▲ Viscosity @ 40°C



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0035429 **Received** : 29 Jun 2023
Lab Number : 05887001 **Diagnosed** : 03 Jul 2023
Unique Number : 10537484 **Diagnostician** : Don Baldrige
Test Package : MOB 1

GFL Environmental - 575 - Squamish Hauling
 38950 Queens Way,
 Squamish, BC
 CA V8B 0K8
 Contact: Dean Imbeau
 dimbeau@gflenv.com
 T: (604)892-5604
 F: (604)892-5238

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)