



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
427161
 Component
Differential
 Fluid
GEAR OIL SAE 75W90 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

Wear

Bearing and/or gear wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil.

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	GFL0066535	---	---
Sample Date	Client Info	01 Jul 2024	---	---
Machine Age	hrs Client Info	411830	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>500	▲ 749	---	---
Chromium ppm ASTM D5185m	>10	6	---	---
Nickel ppm ASTM D5185m	>10	▲ 13	---	---
Titanium ppm ASTM D5185m		<1	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>25	● 21	---	---
Lead ppm ASTM D5185m	>25	6	---	---
Copper ppm ASTM D5185m	>100	▲ 109	---	---
Tin ppm ASTM D5185m	>10	▲ 26	---	---
Vanadium ppm ASTM D5185m		0	---	---
Cadmium ppm ASTM D5185m		<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	400	76	---	---
Barium ppm ASTM D5185m	200	0	---	---
Molybdenum ppm ASTM D5185m	12	<1	---	---
Manganese ppm ASTM D5185m		13	---	---
Magnesium ppm ASTM D5185m	12	4	---	---
Calcium ppm ASTM D5185m	150	74	---	---
Phosphorus ppm ASTM D5185m	1650	1498	---	---
Zinc ppm ASTM D5185m	125	133	---	---
Sulfur ppm ASTM D5185m	22500	28320	---	---

CONTAMINANTS

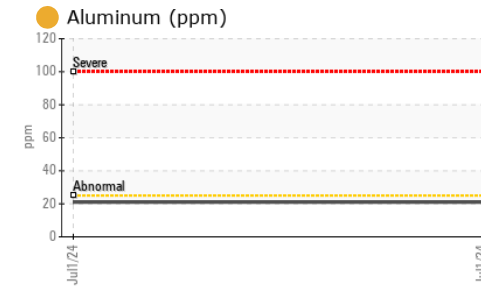
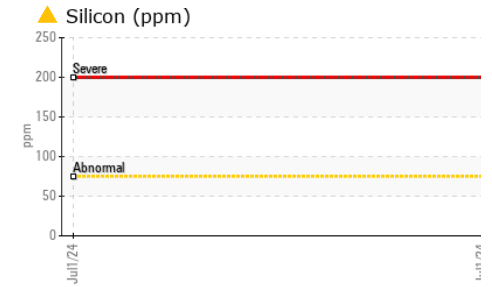
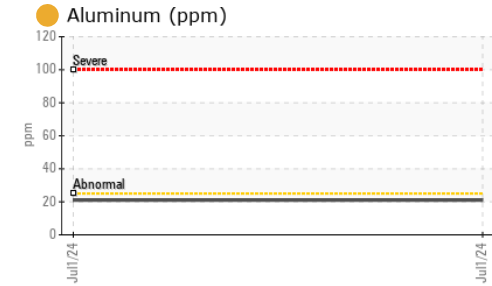
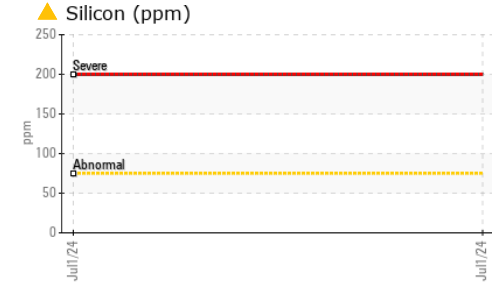
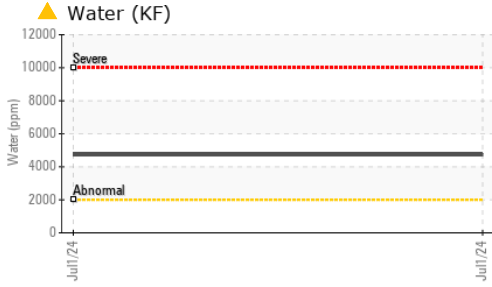
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>75	▲ 200	---	---
Sodium ppm ASTM D5185m		6	---	---
Potassium ppm ASTM D5185m	>20	8	---	---
Water % ASTM D6304	>.2	▲ 0.473	---	---
ppm Water ppm ASTM D6304	>2000	▲ 4730	---	---

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	MODER	---	---
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	▲ 0.2%	---	---
Free Water scalar *Visual		NEG	---	---



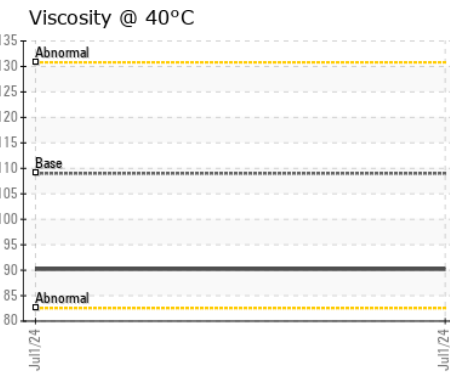
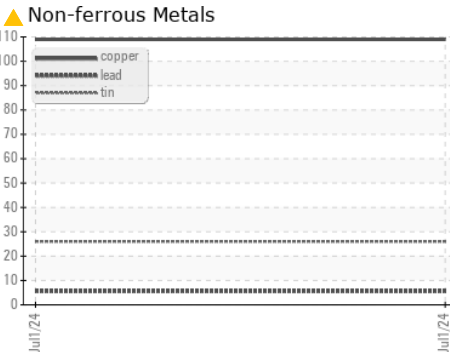
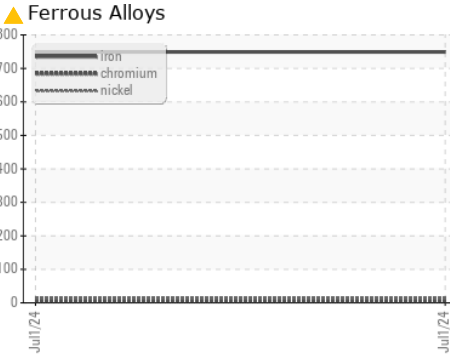
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	90.2	---	---

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

GRAPHS



Certificate L2367

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)

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0066535
Lab Number : 06230577
Unique Number : 11114070
Test Package : FLEET (Additional Tests: KF)

Received : 08 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Sean Felton

GFL Environmental - 977 - Montgomery Hauling
 17851 Highway 105 E
 Conroe, TX
 US 77306
 Contact: Erik Bazaldua
 ebazaldua@gflenv.com

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F: