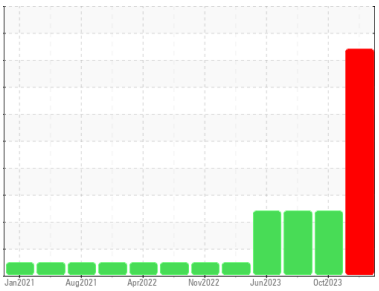
PROBLEM SUMMARY

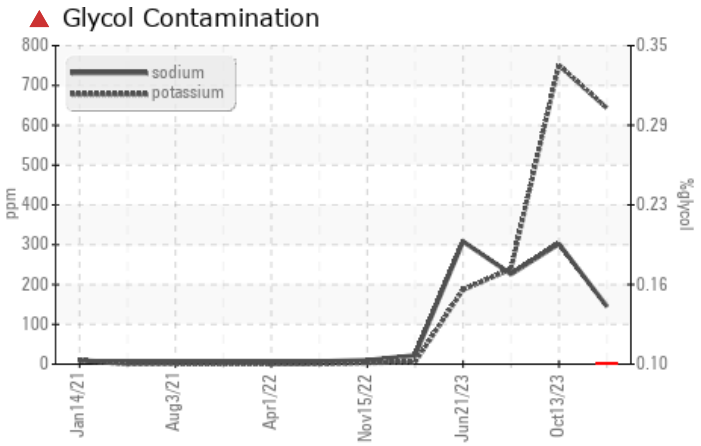
Area
(YA133468)
Machine Id
2639C
Component
Natural Gas Engine
Fluid
CHEVRON DELO 400 NG (40 QTS)

Sample Rating Trend



GLYCOL

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Sodium	ppm	ASTM D5185m		▲ **145**	▲ 302	▲ 226
Potassium	ppm	ASTM D5185m	>20	▲ **643**	▲ 751	▲ 239
Glycol	%	*ASTM D2982		▲ **0.10**	---	---

Customer Id: GFL018
Sample No.: GFL0090024
Lab Number: 06195100
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Glycol Access	---	---	?	We advise that you check for the source of the coolant leak.

HISTORICAL DIAGNOSIS

COOL CHEMICALS

13 Oct 2023 Diag: Jonathan Hester

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

COOL CHEMICALS

14 Aug 2023 Diag: Angela Borella

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

COOL CHEMICALS

21 Jun 2023 Diag: Jonathan Hester

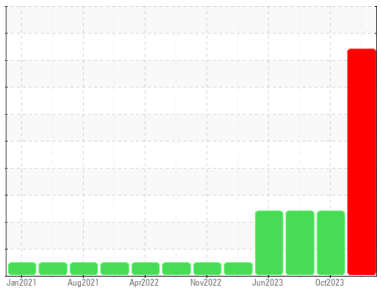
We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

OIL ANALYSIS REPORT

Area
(YA133468)
Machine Id
2639C
Component
Natural Gas Engine
Fluid
CHEVRON DELO 400 NG (40 QTS)

Sample Rating Trend



GLYCOL

DIAGNOSIS

▲ Recommendation
We advise that you check for the source of the coolant leak. Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

▲ Contamination
Sodium and/or potassium levels are high. Test for glycol is positive.

▲ Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0090024**	GFL0080513	GFL0080590
Sample Date		Client Info		**29 May 2024**	13 Oct 2023	14 Aug 2023
Machine Age	hrs	Client Info		**10605**	10605	10605
Oil Age	hrs	Client Info		**0**	10605	10605
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**SEVERE**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**21**	26	17
Chromium	ppm	ASTM D5185m	>4	**2**	3	2
Nickel	ppm	ASTM D5185m	>2	**0**	<1	0
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>3	**<1**	0	<1
Aluminum	ppm	ASTM D5185m	>9	**3**	0	3
Lead	ppm	ASTM D5185m	>30	**14**	3	1
Copper	ppm	ASTM D5185m	>35	**2**	1	0
Tin	ppm	ASTM D5185m	>4	**1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**39**	11	12
Barium	ppm	ASTM D5185m		**0**	2	0
Molybdenum	ppm	ASTM D5185m		**58**	67	61
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**577**	492	572
Calcium	ppm	ASTM D5185m		**1695**	1525	1593
Phosphorus	ppm	ASTM D5185m	800	**885**	663	728
Zinc	ppm	ASTM D5185m	880	**1028**	921	972
Sulfur	ppm	ASTM D5185m		**3304**	2467	2920

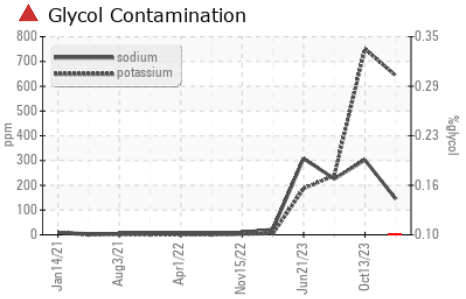
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**9**	13	9
Sodium	ppm	ASTM D5185m		▲ **145**	▲ 302	▲ 226
Potassium	ppm	ASTM D5185m	>20	▲ **643**	▲ 751	▲ 239
Glycol	%	*ASTM D2982		▲ **0.10**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**8.1**	11.4	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.2**	23.2	21.1

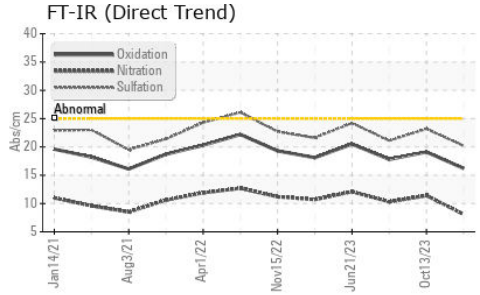
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**16.2**	19.1	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	**8.5**	5.9	6.5

OIL ANALYSIS REPORT

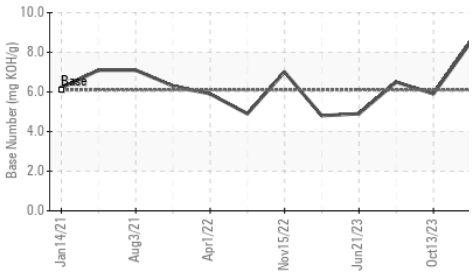
Glycol Contamination



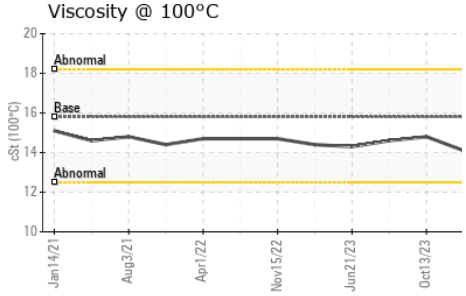
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

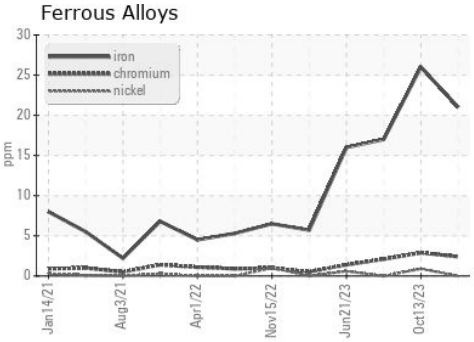


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

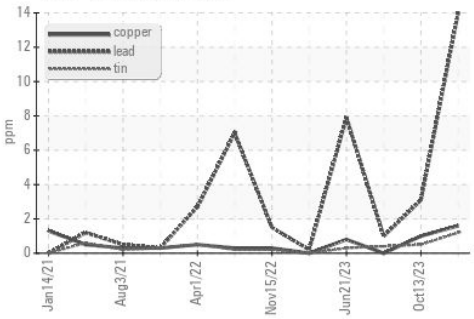
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.8	**14.1**	14.8	14.6

GRAPHS

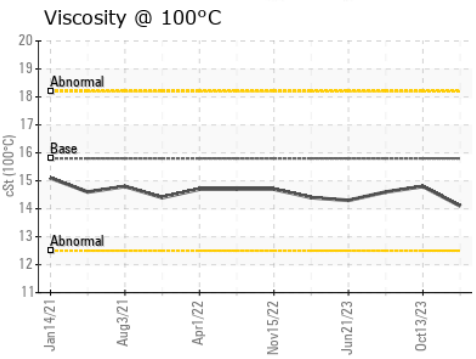
Ferrous Alloys



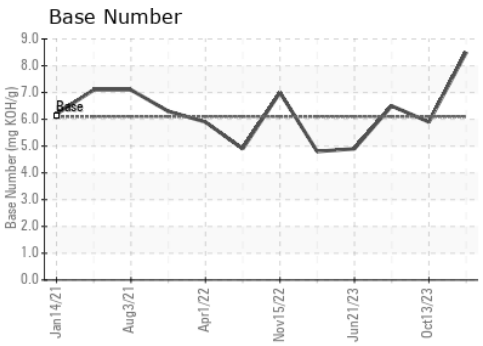
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0090024
Lab Number : 06195100
Unique Number : 11057223
Test Package : FLEET (Additional Tests: Glycol)

Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 01 Jun 2024 - Don Baldridge

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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US 28348
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