



Area
(YA133468)

Machine Id
2639C

Component
Natural Gas Engine

Fluid
CHEVRON DELO 400 NG (40 QTS)

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.

Test	UOM	Method	Limit/Abn	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
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

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
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

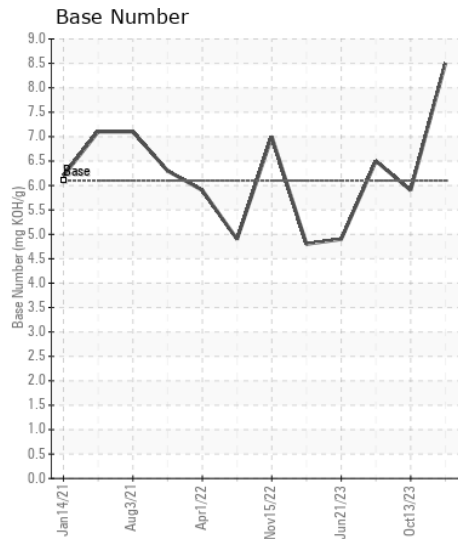
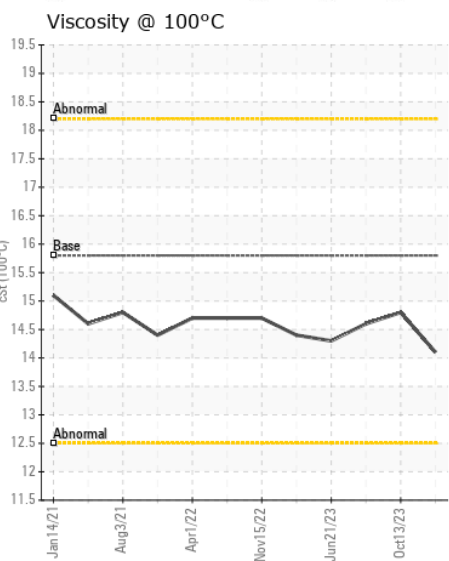
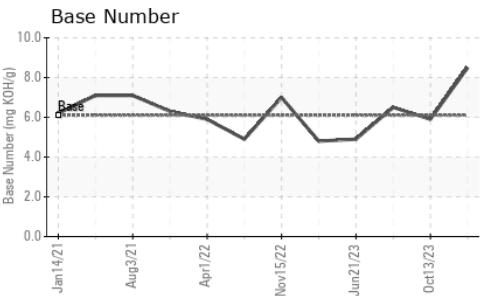
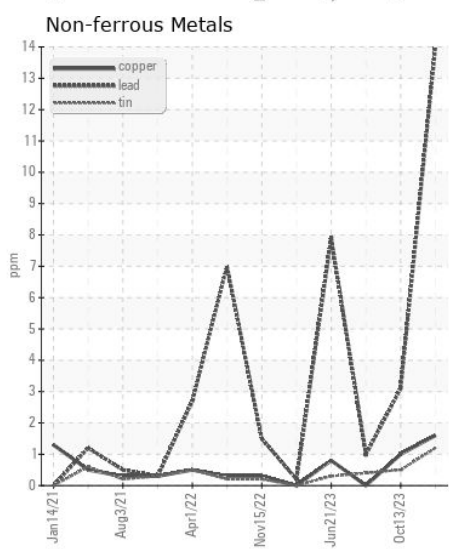
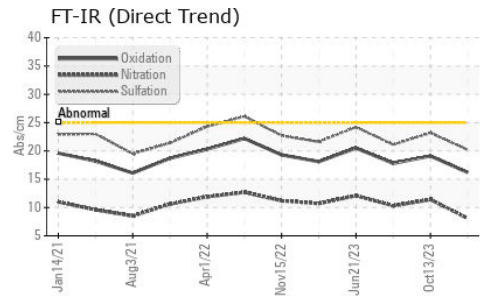
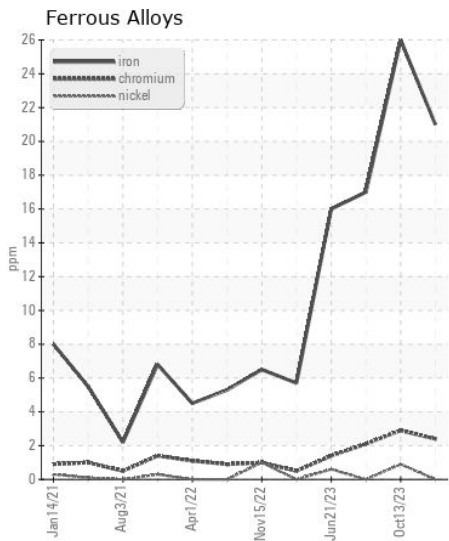
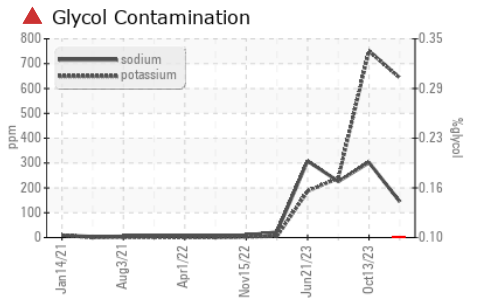
Sodium and/or potassium levels are high. Test for glycol is positive.

Silicon	ppm	ASTM D5185m	>+100	9	13	9
Potassium	ppm	ASTM D5185m	>20	643	751	239
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	*ASTM D2982		0.10	---	---
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
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

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.

Sodium	ppm	ASTM D5185m		145	302	226
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
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
Visc @ 100°C	cSt	ASTM D445	15.8	14.1	14.8	14.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0090024 **Received** : 30 May 2024
Lab Number : 06195100 **Tested** : 31 May 2024
Unique Number : 11057223 **Diagnosed** : 01 Jun 2024 - Don Baldrige
Test Package : FLEET (Additional Tests: Glycol)

GFL Environmental - 018 - Fayetteville
 4621 Marracco Drive
 Hope Mills, NC
 US 28348
 Contact: Robert Carter
 robert.carter@gflenv.com
 T: (910)596-1170
 F:

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)