



Area
(YA149606)

Machine Id
3844C

Component
Natural Gas Engine

Fluid
CHEVRON DELO 400 NG (5 GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

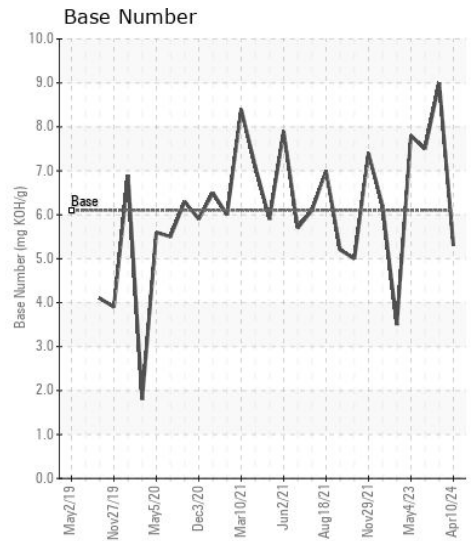
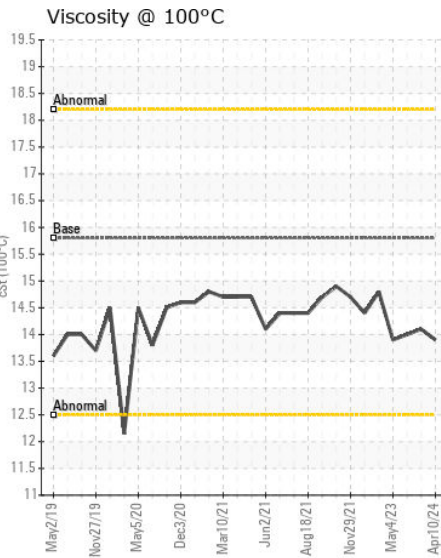
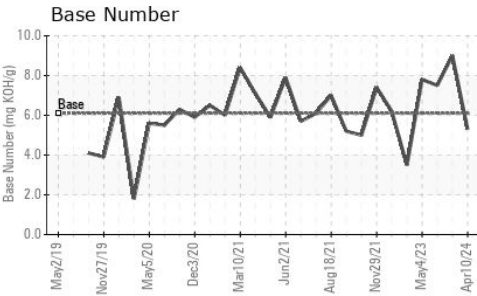
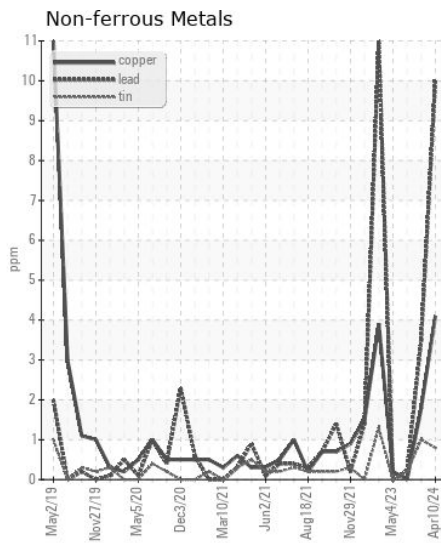
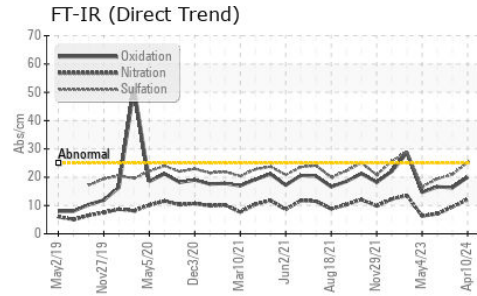
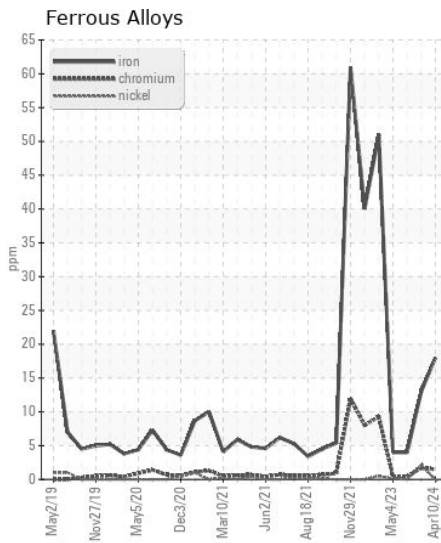
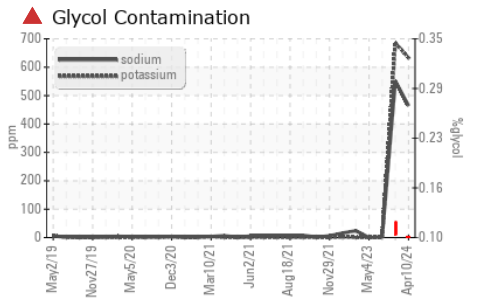
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0109664	GFL0092685	GFL0072422
Sample Date		Client Info		10 Apr 2024	03 Jan 2024	07 Jun 2023
Machine Age	hrs	Client Info		0	0	10560
Oil Age	hrs	Client Info		0	0	175
Filter Age	hrs	Client Info		0	0	175
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>50	18	13	4
Chromium	ppm	ASTM D5185m	>4	2	2	<1
Nickel	ppm	ASTM D5185m	>2	0	2	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	0
Lead	ppm	ASTM D5185m	>30	10	4	<1
Copper	ppm	ASTM D5185m	>35	4	2	0
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	16	18	4
Potassium	ppm	ASTM D5185m	>20	633	686	0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	*ASTM D2982		0.10	0.12	---
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.1	9.5	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	21.0	19.4
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
Sodium	ppm	ASTM D5185m		465	551	3
Boron	ppm	ASTM D5185m		16	15	34
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		123	130	50
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		590	616	683
Calcium	ppm	ASTM D5185m		1486	1422	1357
Phosphorus	ppm	ASTM D5185m	800	668	737	836
Zinc	ppm	ASTM D5185m	880	964	972	1033
Sulfur	ppm	ASTM D5185m		2970	2720	3243
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	16.3	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	5.3	9.0	7.5
Visc @ 100°C	cSt	ASTM D445	15.8	13.9	14.1	14.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0109664
Lab Number : 06155625
Unique Number : 10991048
Test Package : FLEET
Received : 22 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 24 Apr 2024 - Don Baldrige

GFL Environmental - 005 - Wilson/Tri-East(CNG)
 2810 Contentnea Road S
 Wilson, NC
 US 27893-8501
 Contact: SPENCER LIGGON
 spencer.liggon@gflenv.com
 T: (800)207-6618
 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)