



Area
(YA115787)

Machine Id
3493C

Component
Natural Gas Engine

Fluid
CHEVRON DELO 400 NG (30 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

Piston, ring and cylinder wear is indicated. Bearing and/or bushing wear is indicated.

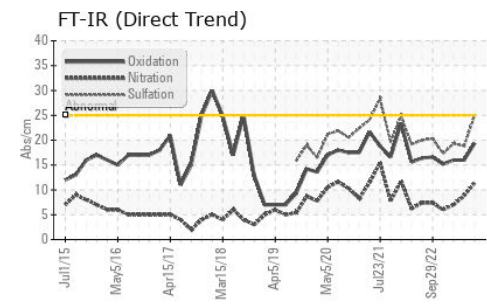
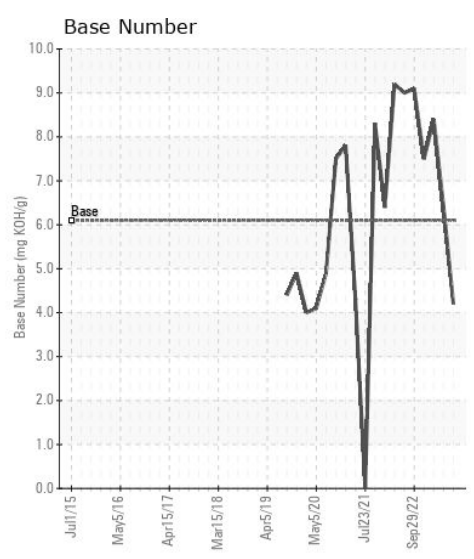
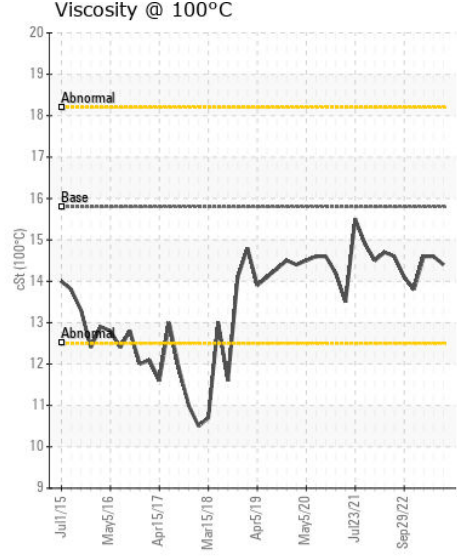
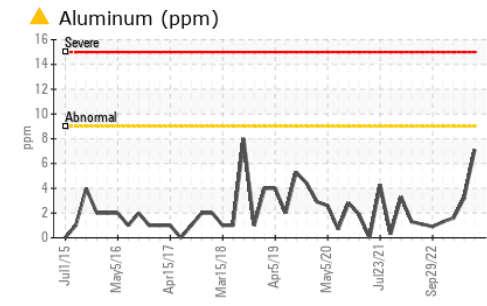
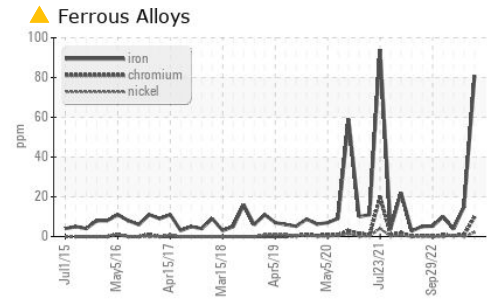
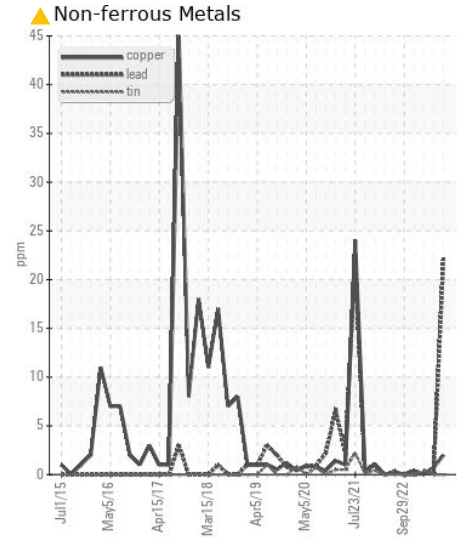
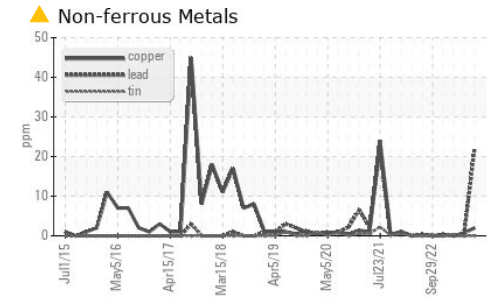
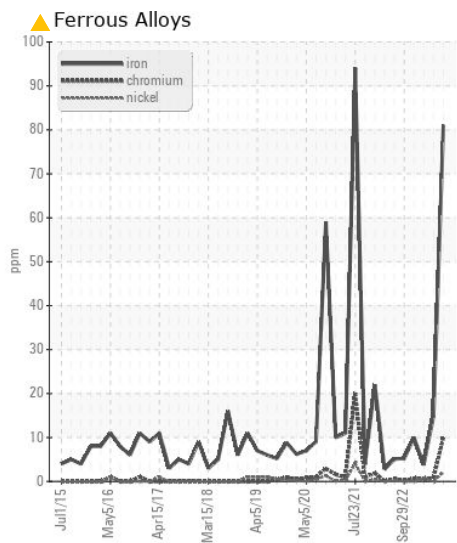
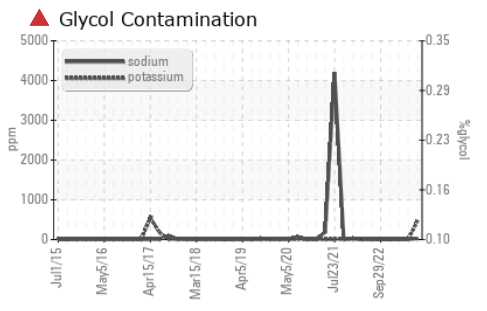
CONTAMINATION

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		GFL0123394	GFL0082477	GFL0082452
Sample Date		Client Info		18 Jun 2024	18 Oct 2023	02 Jun 2023
Machine Age	hrs	Client Info		116026	116026	9202
Oil Age	hrs	Client Info		116026	116026	1217
Filter Age	hrs	Client Info		116026	600	1217
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	▲ 81	15	4
Chromium	ppm	ASTM D5185m	>4	▲ 10	<1	<1
Nickel	ppm	ASTM D5185m	>2	2	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	▲ 7	3	2
Lead	ppm	ASTM D5185m	>30	▲ 22	<1	<1
Copper	ppm	ASTM D5185m	>35	2	<1	0
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	14	7	5
Potassium	ppm	ASTM D5185m	>20	▲ 470	4	2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	*ASTM D2982		▲ 0.10	---	---
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	11.4	8.8	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	18.8	19.3
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		▲ 28	5	3
Boron	ppm	ASTM D5185m		8	15	33
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		63	52	49
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		641	562	574
Calcium	ppm	ASTM D5185m		1991	1665	1572
Phosphorus	ppm	ASTM D5185m	800	914	764	802
Zinc	ppm	ASTM D5185m	880	1191	997	984
Sulfur	ppm	ASTM D5185m		3366	2423	2571
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	16.0	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	4.2	6.4	8.4
Visc @ 100°C	cSt	ASTM D445	15.8	14.4	14.6	14.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0123394 **Received** : 20 Jun 2024
Lab Number : 06215669 **Tested** : 24 Jun 2024
Unique Number : 11088533 **Diagnosed** : 24 Jun 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

GFL Environmental - 007 - Brunswick
 2809 Galloway Road
 Bolivia, NC
 US 28422
 Contact: DONALD CRAVEN
 dcraven@gflenv.com
 T:
 F: (910)253-4179

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)