



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(YA144621)

Machine Id
3778C

Component
Natural Gas Engine

Fluid
CHEVRON DELO 400 NG (46 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115992	GFL0080515	GFL0066842
Sample Date		Client Info		02 Jul 2024	13 Oct 2023	20 Jul 2023
Machine Age	hrs	Client Info		10464	10464	10464
Oil Age	hrs	Client Info		0	10464	10464
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				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	12	13	10
Chromium	ppm	ASTM D5185m	>4	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	0	1
Lead	ppm	ASTM D5185m	>30	0	<1	0
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

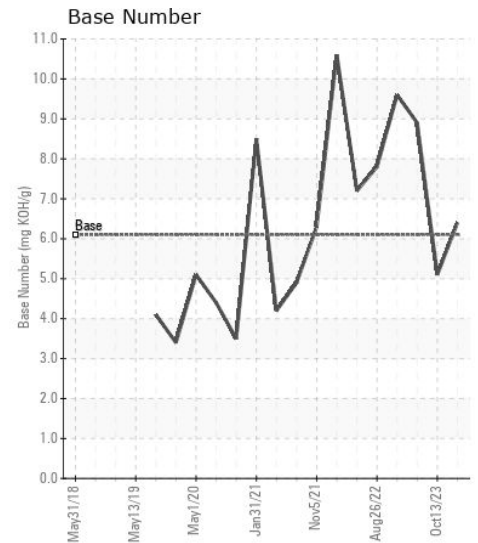
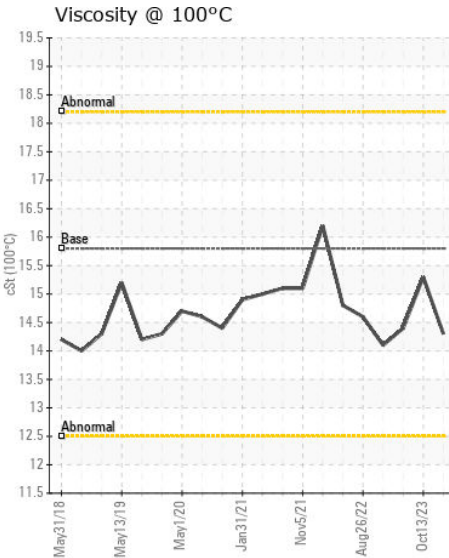
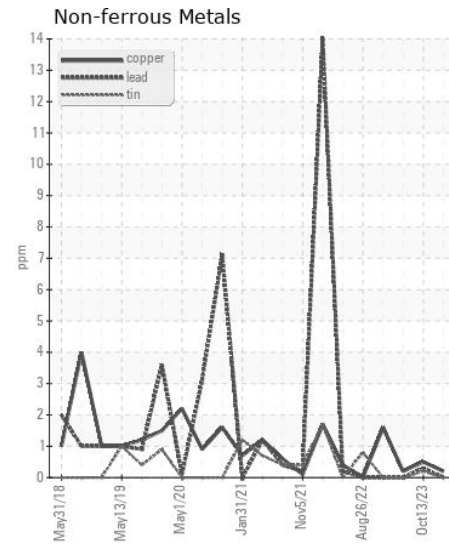
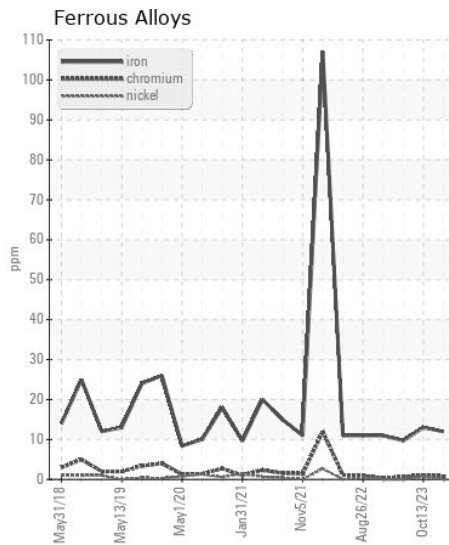
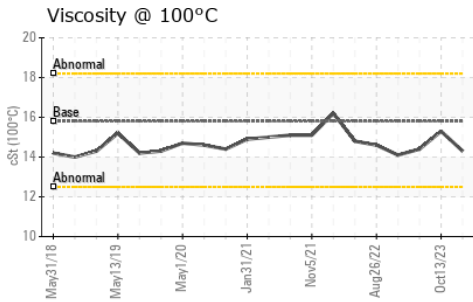
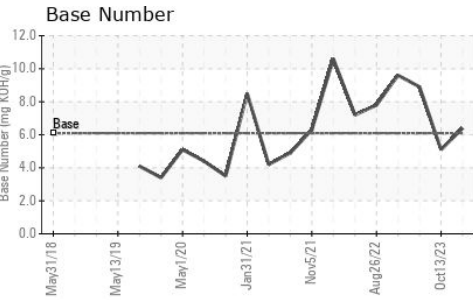
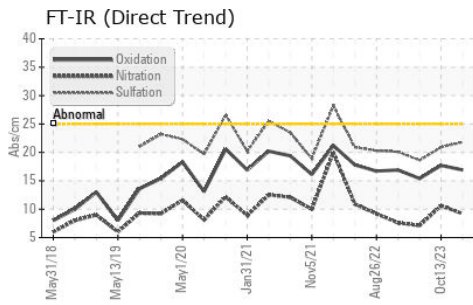
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	4	4	5
Potassium	ppm	ASTM D5185m	>20	34	14	41
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	0.0
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.2	10.6	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	20.9	18.6
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 condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		6	4	10
Boron	ppm	ASTM D5185m		26	9	27
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		53	54	55
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		589	533	787
Calcium	ppm	ASTM D5185m		1558	1496	1425
Phosphorus	ppm	ASTM D5185m	800	817	691	1017
Zinc	ppm	ASTM D5185m	880	1019	922	1232
Sulfur	ppm	ASTM D5185m		2407	2346	3666
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	17.7	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	6.4	5.1	8.9
Visc @ 100°C	cSt	ASTM D445	15.8	14.3	15.3	14.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0115992
Lab Number : 06227110
Unique Number : 11110603
Test Package : FLEET

Received : 03 Jul 2024
Tested : 05 Jul 2024
Diagnosed : 05 Jul 2024 - Wes Davis

GFL Environmental - 018 - Fayetteville
 4621 Marracco Drive
 Hope Mills, NC
 US 28348

Contact: Robert Carter
 robert.carter@gflenv.com

T: (910)596-1170

F:

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)