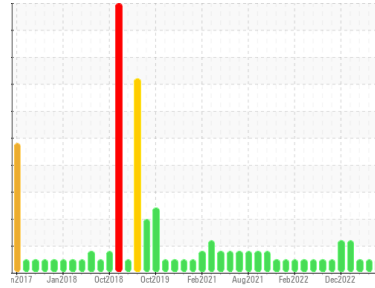




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3595C
 Component
Natural Gas Engine
 Fluid
CHEVRON DELO 400 NG (48 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0089287	GFL0089332	GFL0056685
Sample Date	Client Info	25 Aug 2023	02 Aug 2023	13 Apr 2023
Machine Age	hrs	23877	23691	22824
Oil Age	hrs	186	867	1039
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	45	32	14
Chromium	ppm	ASTM D5185m >4	3	2	1
Nickel	ppm	ASTM D5185m >2	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	9	7	<1
Lead	ppm	ASTM D5185m >30	0	<1	0
Copper	ppm	ASTM D5185m >35	7	6	2
Tin	ppm	ASTM D5185m >4	0	0	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	1	0	17
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	64	49	51
Manganese	ppm	ASTM D5185m	1	<1	<1
Magnesium	ppm	ASTM D5185m	625	500	528
Calcium	ppm	ASTM D5185m	1904	1520	1486
Phosphorus	ppm	ASTM D5185m 800	778	592	724
Zinc	ppm	ASTM D5185m 880	1068	840	904
Sulfur	ppm	ASTM D5185m	3141	2429	2378

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	23	18	6
Sodium	ppm	ASTM D5185m	53	42	54
Potassium	ppm	ASTM D5185m >20	31	23	27

INFRA-RED

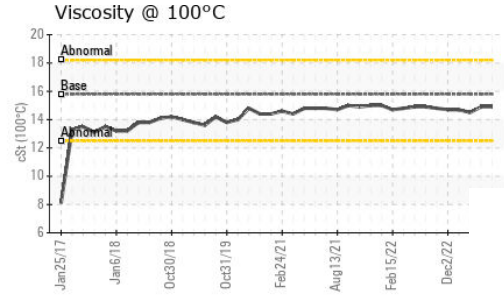
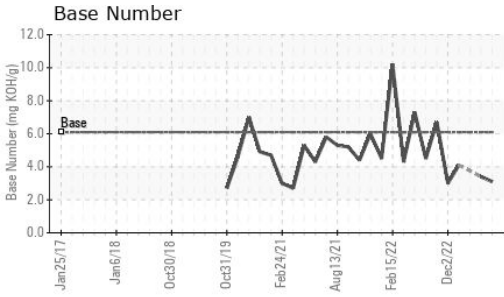
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	11.6	10.7	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.2	23.3	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.0	19.5	---
Base Number (BN)	mg KOH/g	ASTM D2896 6.1	3.1	3.4	---



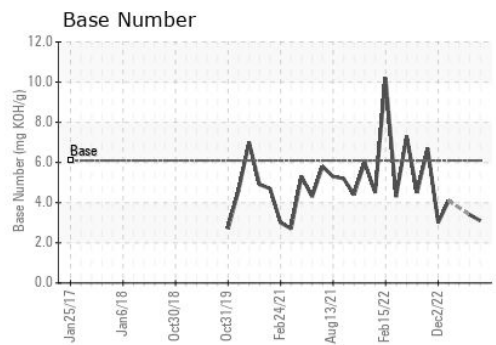
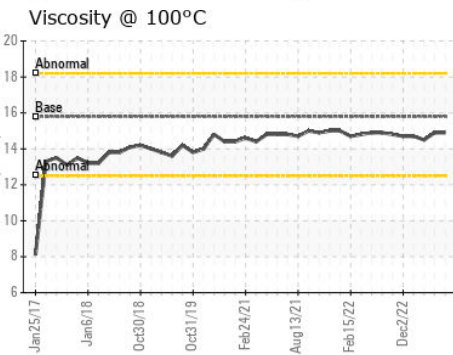
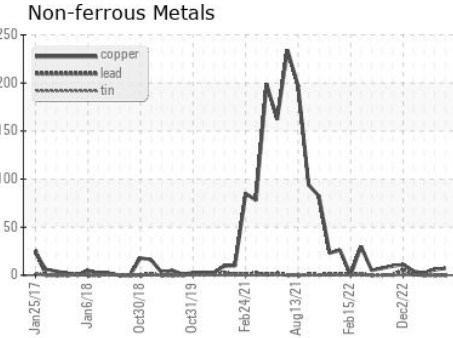
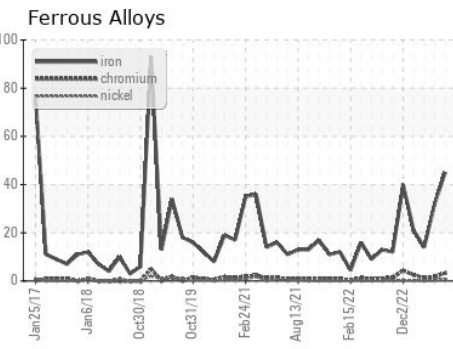
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.8	14.9	14.9	14.5

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0089287 **Received** : 28 Aug 2023
Lab Number : **05936007** **Diagnosed** : 29 Aug 2023
Unique Number : 10621278 **Diagnostician** : Don Baldrige
Test Package : FLEET

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529
 Contact: Craig Johnson
 craig.johnson@gflenv.com
 T: (919)662-7100
 F: (919)662-7130

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)