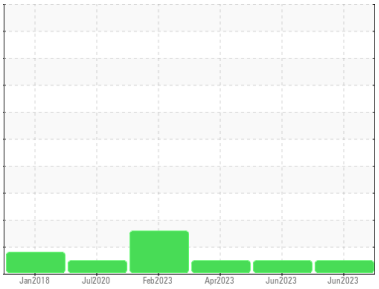
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Machine Id
10621C
Component
Natural Gas Engine
Fluid
CHEVRON DELO 400 NG (8 GAL)

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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number		Client Info		**GFL0083146**	GFL0083119	GFL0067444
Sample Date		Client Info		**28 Jun 2023**	12 Jun 2023	13 Apr 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Sample Status				**NORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	**26**	22	23
Chromium	ppm	ASTM D5185m	>4	**4**	<1	5
Nickel	ppm	ASTM D5185m	>2	**<1**	0	1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**0**	2	3
Lead	ppm	ASTM D5185m	>30	**2**	0	2
Copper	ppm	ASTM D5185m	>35	**<1**	<1	1
Tin	ppm	ASTM D5185m	>4	**<1**	<1	1
Vanadium	ppm	ASTM D5185m		**<1**	<1	1
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		**16**	6	28
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**63**	65	61
Manganese	ppm	ASTM D5185m		**<1**	<1	2
Magnesium	ppm	ASTM D5185m		**625**	998	612
Calcium	ppm	ASTM D5185m		**1805**	1237	1504
Phosphorus	ppm	ASTM D5185m	800	**768**	1098	768
Zinc	ppm	ASTM D5185m	880	**1040**	1365	967
Sulfur	ppm	ASTM D5185m		**3000**	3983	2614

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	**5**	3	6
Sodium	ppm	ASTM D5185m		**4**	2	4
Potassium	ppm	ASTM D5185m	>20	**2**	4	1

INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		**0.1**	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	**11.6**	10.2	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.6**	21.4	19.7

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**19.2**	19.0	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	**5.4**	5.3	6.5

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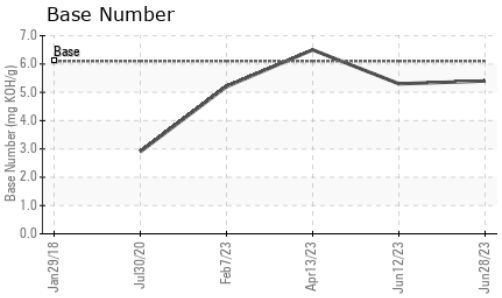
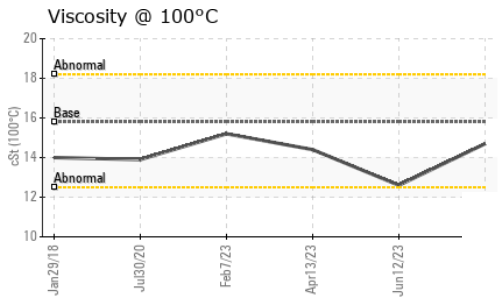
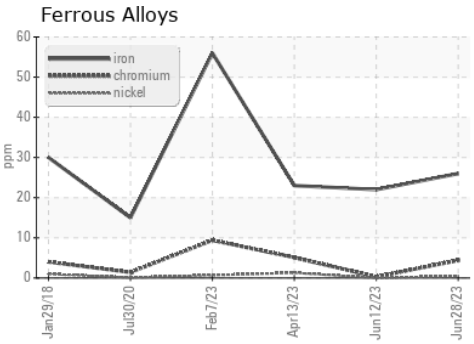


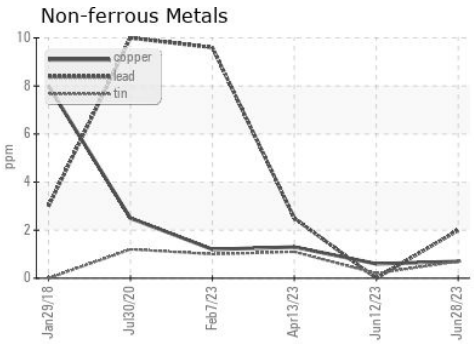


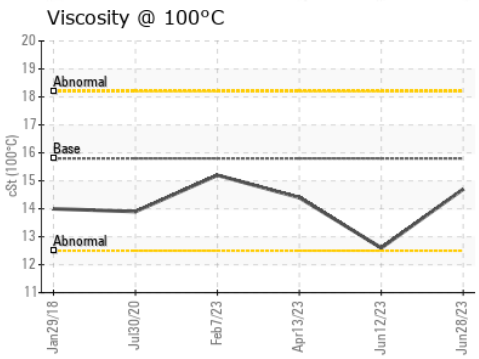
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

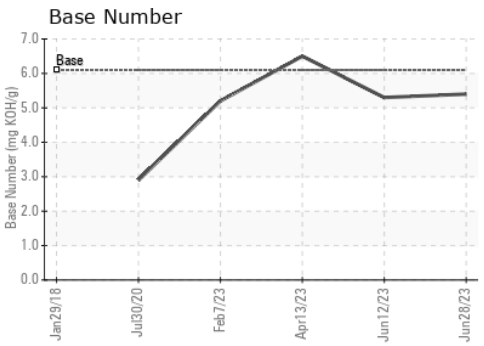
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.8	**14.7**	12.6	14.4

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0083146
Lab Number : 05890700
Unique Number : 10546510
Test Package : FLEET

Received : 05 Jul 2023
Diagnosed : 07 Jul 2023
Diagnostician : Sean Felton

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)

GFL Environmental - 074 - Douglas - Transwaste
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Report Id: GFL074 [WUSCAR] 05890700 (Generated: 07/07/2023 12:54:49) Rev: 1

Submitted By: CURTIS JACOBS