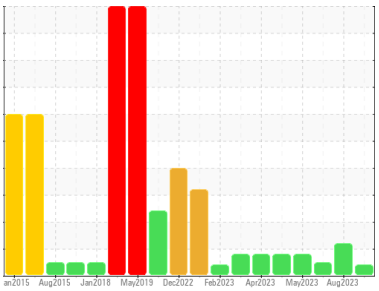
PROBLEM SUMMARY

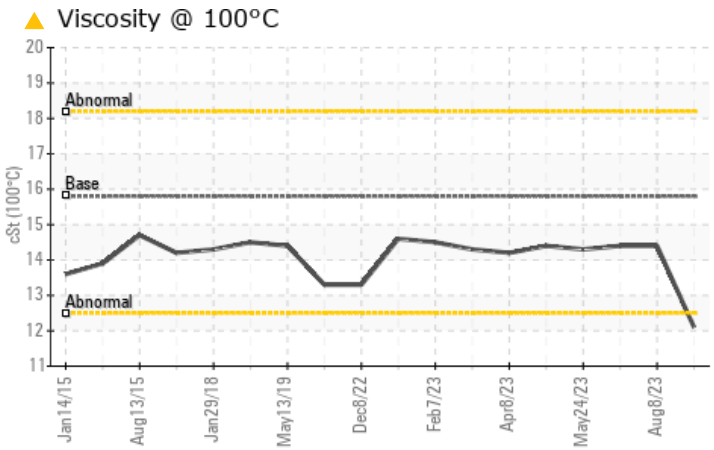
Sample Rating Trend



VISCOSITY

Machine Id
3590C
Component
Natural Gas Engine
Fluid
CHEVRON DELO 400 NG (7 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	NORMAL
Visc @ 100°C	cSt	ASTM D445	15.8	▲ **12.1**	14.4	14.4

Customer Id: GFL074
Sample No.: GFL0083142
Lab Number: 05964031
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

08 Aug 2023 Diag: Jonathan Hester

COOL CHEMICALS

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report

16 Jun 2023 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

24 May 2023 Diag: Don Baldridge

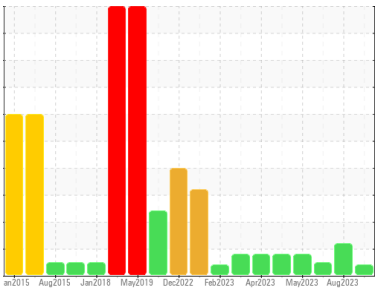
WEAR

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
3590C
Component
Natural Gas Engine
Fluid
CHEVRON DELO 400 NG (7 GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0083142**	GFL0083112	GFL0083161
Sample Date		Client Info		**25 Sep 2023**	08 Aug 2023	16 Jun 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				**ATTENTION**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**24**	42	16
Chromium	ppm	ASTM D5185m	>4	**1**	2	1
Nickel	ppm	ASTM D5185m	>2	**0**	2	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m	>3	**0**	<1	0
Aluminum	ppm	ASTM D5185m	>9	**6**	4	3
Lead	ppm	ASTM D5185m	>30	**<1**	<1	1
Copper	ppm	ASTM D5185m	>35	**13**	30	12
Tin	ppm	ASTM D5185m	>4	**2**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**2**	5	31
Barium	ppm	ASTM D5185m		**0**	2	0
Molybdenum	ppm	ASTM D5185m		**70**	71	60
Manganese	ppm	ASTM D5185m		**2**	1	<1
Magnesium	ppm	ASTM D5185m		**966**	558	604
Calcium	ppm	ASTM D5185m		**1287**	1640	1675
Phosphorus	ppm	ASTM D5185m	800	**1075**	689	773
Zinc	ppm	ASTM D5185m	880	**1362**	976	995
Sulfur	ppm	ASTM D5185m		**2671**	2743	2998

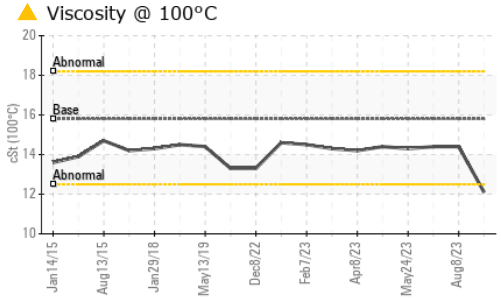
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**7**	8	5
Sodium	ppm	ASTM D5185m		**5**	▲ 148	14
Potassium	ppm	ASTM D5185m	>20	**4**	4	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.2**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**27.9**	11.7	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	**10.5**	22.2	19.1

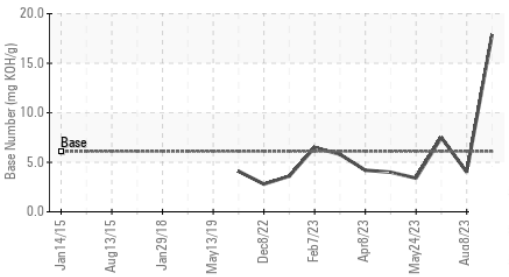
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**24.6**	17.3	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	**17.9**	4.0	7.5

OIL ANALYSIS REPORT

▲ Viscosity @ 100°C



Base Number

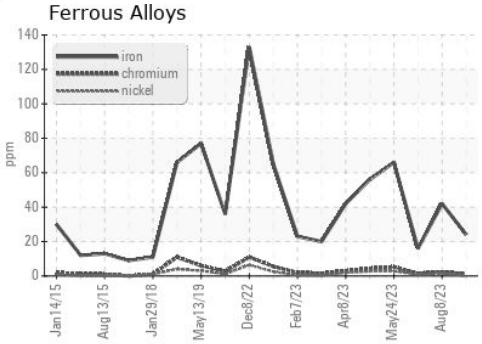


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**MDHVY**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

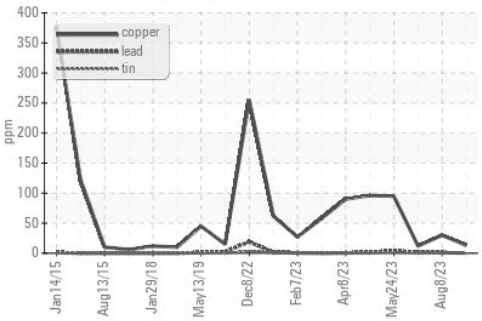
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.8	▲ **12.1**	14.4	14.4

GRAPHS

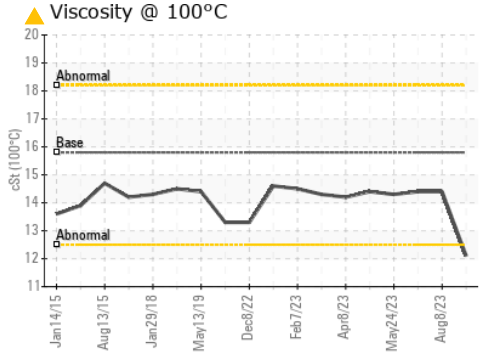
Ferrous Alloys



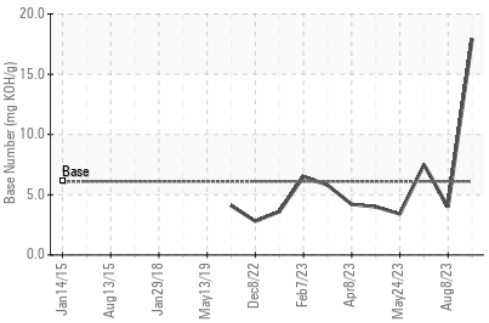
Non-ferrous Metals



▲ Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0083142
Lab Number : 05964031
Unique Number : 10670582
Test Package : FLEET

Received : 28 Sep 2023
Diagnosed : 02 Oct 2023
Diagnostician : Jonathan Hester

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
1219 Landfill Road
Douglas, GA
US 31533
Contact: CURTIS JACOBS
CURTIS.JACOBS@GFLENV.COM
T: (912)384-6001
F:

Report Id: GFL074 [WUSCAR] 05964031 (Generated: 10/03/2023 05:59:59) Rev: 1

Submitted By: CURTIS JACOBS