



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(YA130696)
Machine Id
10417C
Component
Natural Gas Engine
Fluid
CHEVRON DELO 400 NG (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0123412	GFL0082461	GFL0050797
Sample Date		Client Info		18 Jun 2024	17 Jul 2023	06 Feb 2023
Machine Age	hrs	Client Info		95952	6505	5278
Oil Age	hrs	Client Info		95952	1227	1180
Filter Age	hrs	Client Info		0	1227	1180
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	4	13	26
Chromium	ppm	ASTM D5185m	>4	<1	2	▲ 6
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	1	2	3
Lead	ppm	ASTM D5185m	>30	2	9	2
Copper	ppm	ASTM D5185m	>35	<1	1	1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	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.

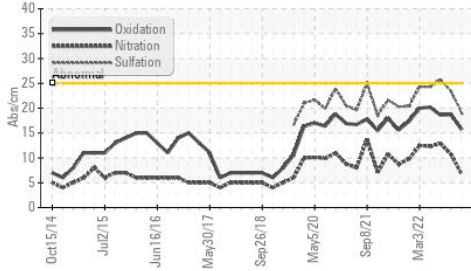
Silicon	ppm	ASTM D5185m	>+100	3	5	0
Potassium	ppm	ASTM D5185m	>20	2	16	8
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.7	10.7	12.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	23.4	25.8
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	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

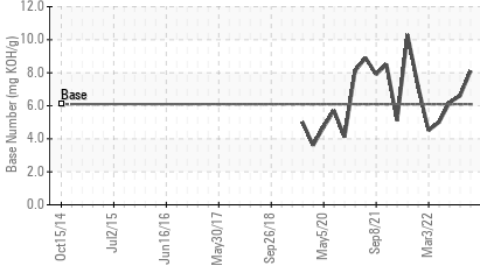
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	10	13
Boron	ppm	ASTM D5185m		43	0	11
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		51	62	79
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		640	677	721
Calcium	ppm	ASTM D5185m		1780	1987	2349
Phosphorus	ppm	ASTM D5185m	800	918	899	1003
Zinc	ppm	ASTM D5185m	880	1108	1172	1254
Sulfur	ppm	ASTM D5185m		3365	3315	2730
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	18.7	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	8.1	6.6	6.2
Visc @ 100°C	cSt	ASTM D445	15.8	14.3	15.0	14.7

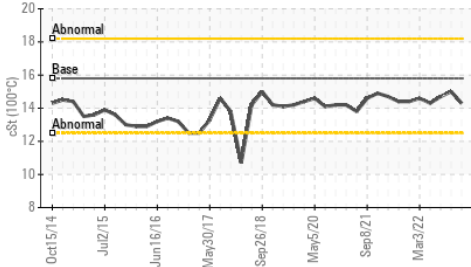
FT-IR (Direct Trend)



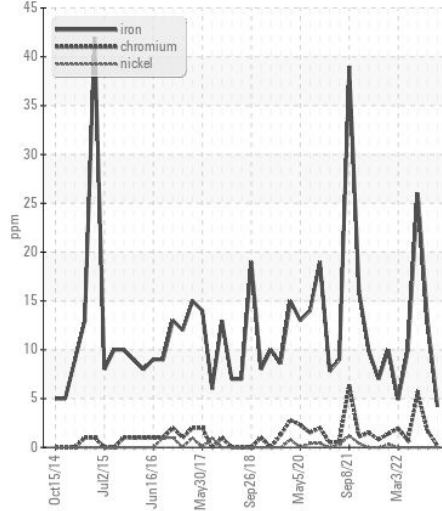
Base Number



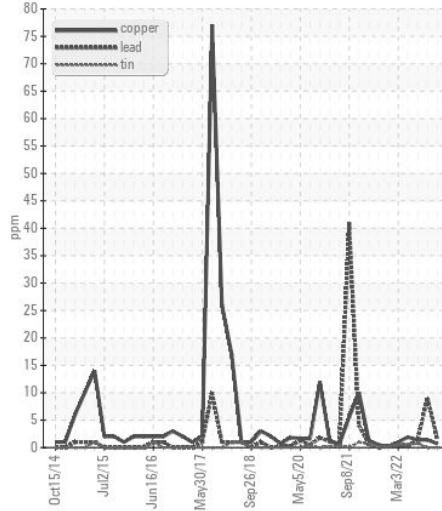
Viscosity @ 100°C



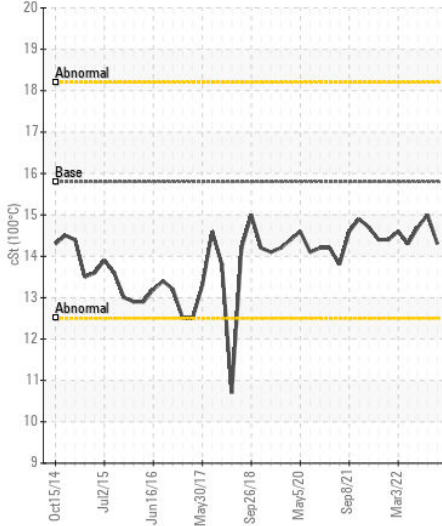
Ferrous Alloys



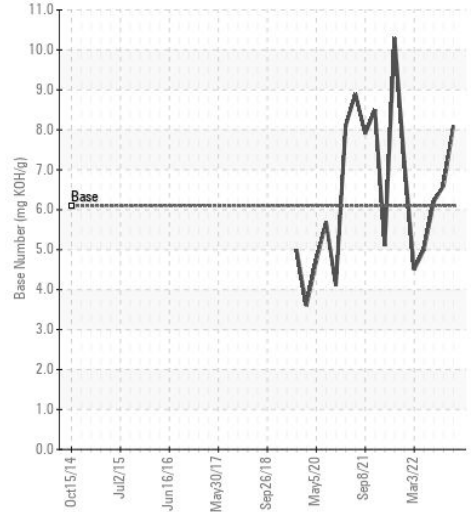
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0123412
Lab Number : 06215564
Unique Number : 11088428
Test Package : FLEET

Received : 20 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 21 Jun 2024 - Wes Davis

GFL Environmental - 007 - Brunswick
 2809 Galloway Road
 Bolivia, NC
 US 28422
 Contact: DONALD CRAVEN
 dcraven@gflenv.com

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)

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