



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(YA172341)

Machine Id
10371C

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		GFL0123436	GFL0050776	PCA0061474
Sample Date		Client Info		18 Jun 2024	12 Apr 2023	26 Aug 2022
Machine Age	hrs	Client Info		77646	11555	10549
Oil Age	hrs	Client Info		77646	1006	1188
Filter Age	hrs	Client Info		77646	1006	1188
Oil Changed		Client Info		N/A	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	13	20	12
Chromium	ppm	ASTM D5185m	>4	1	<1	1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	2	2	5
Lead	ppm	ASTM D5185m	>30	2	0	<1
Copper	ppm	ASTM D5185m	>35	<1	2	<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.

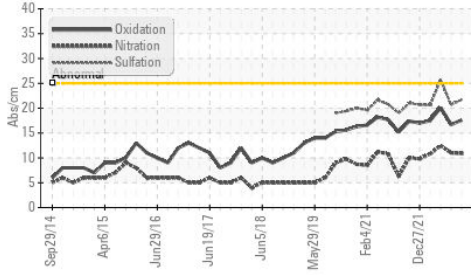
Silicon	ppm	ASTM D5185m	>+100	4	3	4
Potassium	ppm	ASTM D5185m	>20	13	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.9	11.0	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	20.7	25.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	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

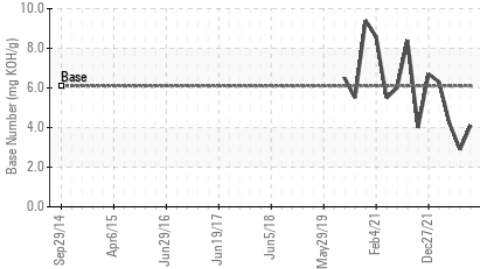
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		8	2	5
Boron	ppm	ASTM D5185m		4	24	7
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		52	64	50
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		564	929	505
Calcium	ppm	ASTM D5185m		1760	1107	1563
Phosphorus	ppm	ASTM D5185m	800	741	1046	640
Zinc	ppm	ASTM D5185m	880	1019	1247	908
Sulfur	ppm	ASTM D5185m		3026	3881	2274
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	16.7	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	4.1	2.9	4.2
Visc @ 100°C	cSt	ASTM D445	15.8	14.2	14.1	14.3

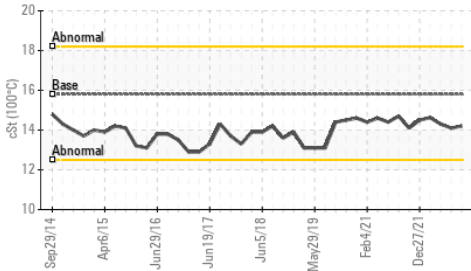
FT-IR (Direct Trend)



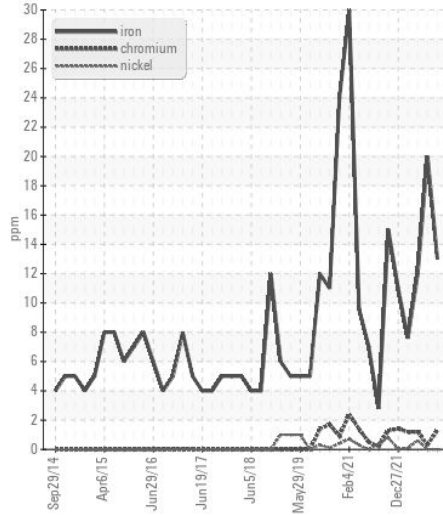
Base Number



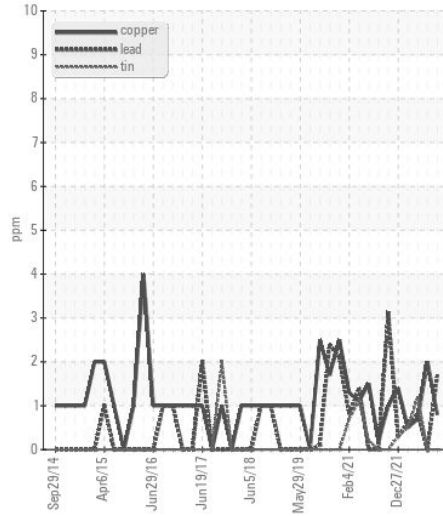
Viscosity @ 100°C



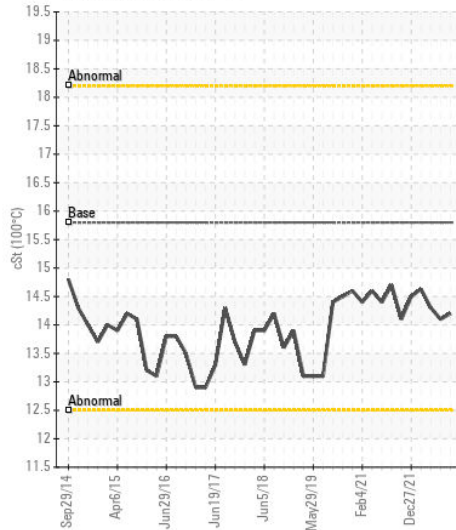
Ferrous Alloys



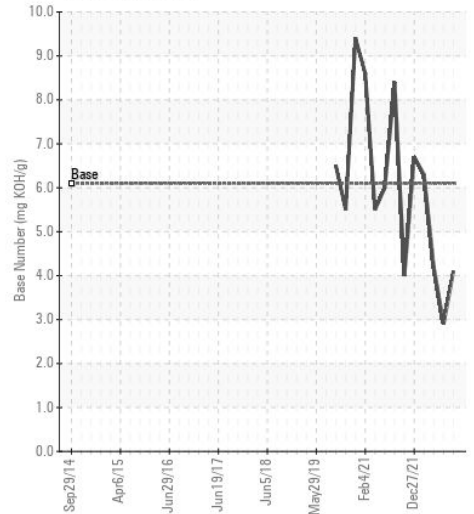
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0123436
Lab Number : 06215568
Unique Number : 11088432
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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