



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**13015**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 SAE 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0540409</b>	WC0540388	---
Sample Date		Client Info		<b>01 Feb 2024</b>	16 Aug 2023	---
Machine Age	mls	Client Info		<b>54008</b>	13239	---
Oil Age	mls	Client Info		<b>50000</b>	13239	---
Filter Age	mls	Client Info		<b>50000</b>	13239	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>40</b>	31	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	2	---
Lead	ppm	ASTM D5185m	>40	<b>2</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	5	---
Tin	ppm	ASTM D5185m	>15	<b>2</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

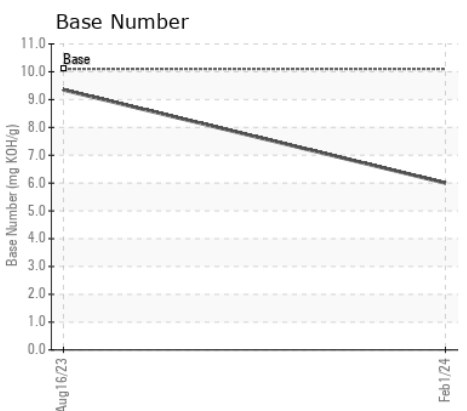
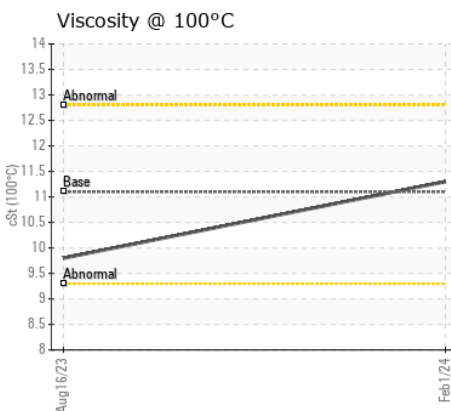
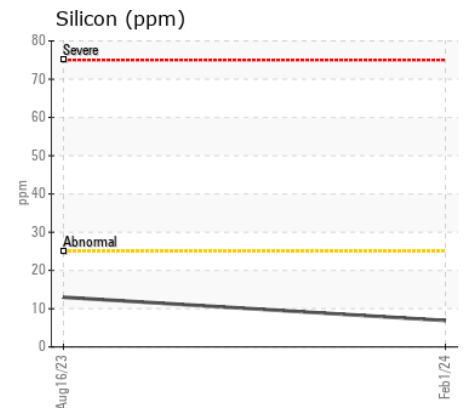
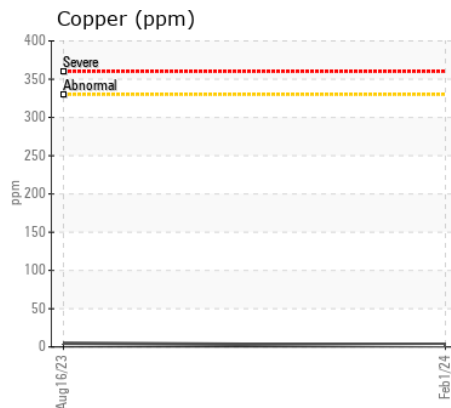
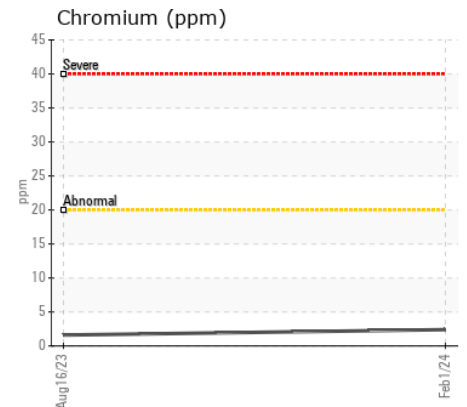
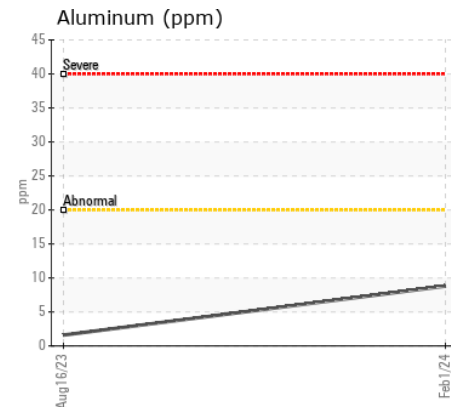
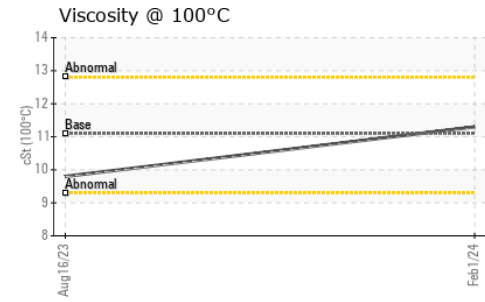
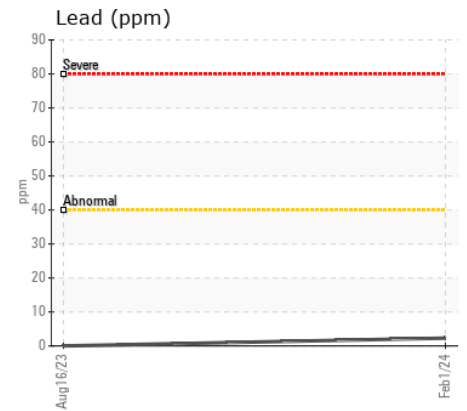
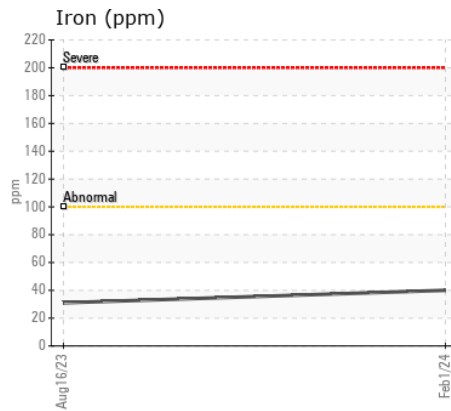
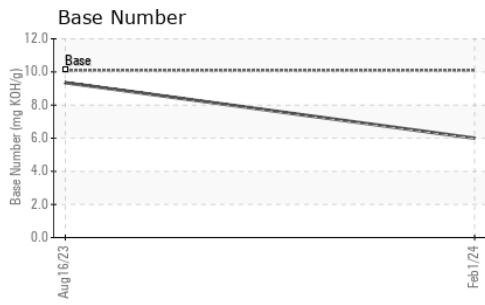
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	13	---
Potassium	ppm	ASTM D5185m	>20	<b>23</b>	9	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.2</b>	8.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.0</b>	22.2	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>2</b>	4	---
Boron	ppm	ASTM D5185m		<b>15</b>	43	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>6</b>	43	---
Manganese	ppm	ASTM D5185m		<b>1</b>	3	---
Magnesium	ppm	ASTM D5185m		<b>731</b>	554	---
Calcium	ppm	ASTM D5185m		<b>1644</b>	1647	---
Phosphorus	ppm	ASTM D5185m	1260	<b>730</b>	745	---
Zinc	ppm	ASTM D5185m	1400	<b>1024</b>	893	---
Sulfur	ppm	ASTM D5185m		<b>3141</b>	2368	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.2</b>	21.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>6.00</b>	9.35	---
Visc @ 100°C	cSt	ASTM D445	11.1	<b>11.3</b>	9.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0540409

Lab Number : 06103811

Unique Number : 10902041

Test Package : MOB 2

Received : 28 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 29 Feb 2024 - Wes Davis

LT/MILKY WAY - VANCOUVER

2631 SCOTT AVE

VANCOUVER, WA

US 98660

Contact: BRANDON MILLER

brandonm@lynden.com

T: (206)256-2577

F: (206)256-4068

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)