



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**3125**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 XLE 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>WC0377985</b>	WC05969105	---
Sample Date		Client Info		<b>13 Oct 2023</b>	28 Sep 2023	---
Machine Age	mls	Client Info		<b>349327</b>	337371	---
Oil Age	mls	Client Info		<b>0</b>	0	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>15</b>	60	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	▲ 28	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>3</b>	10	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

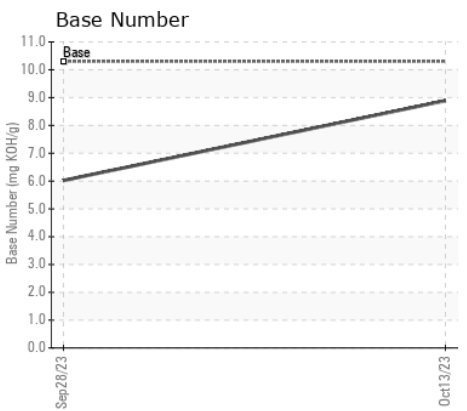
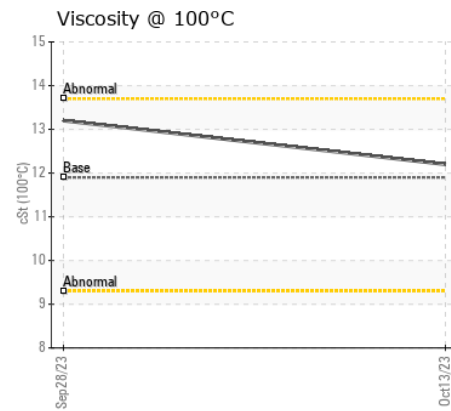
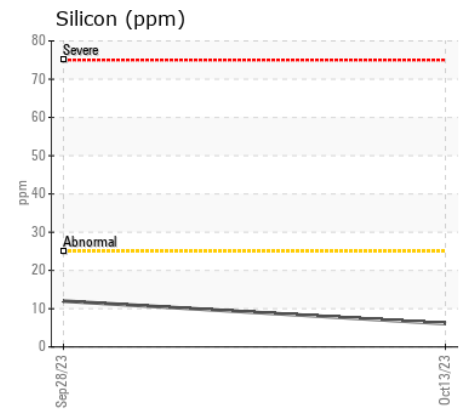
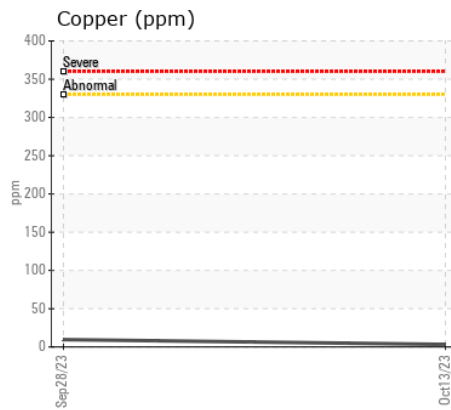
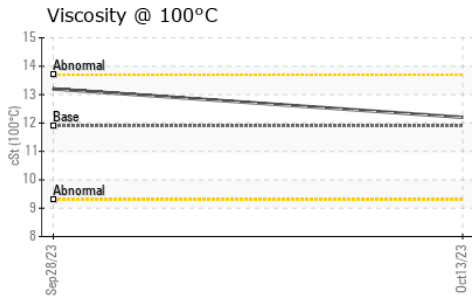
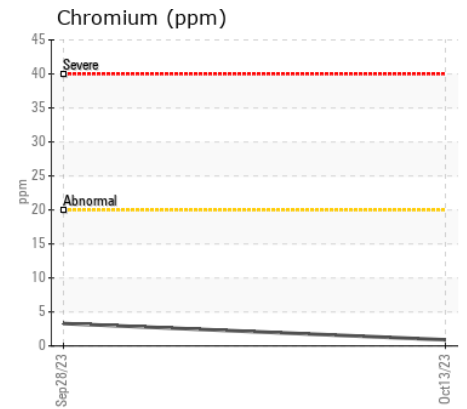
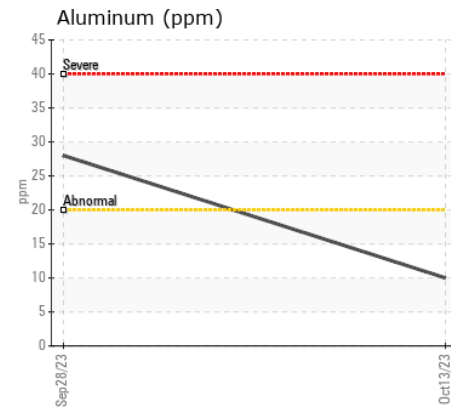
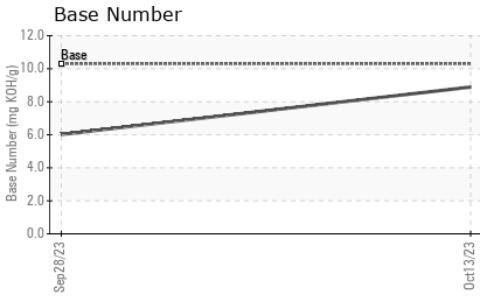
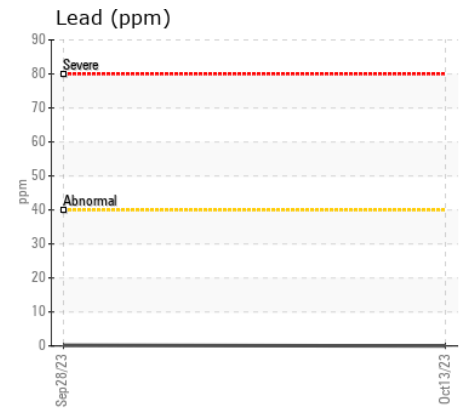
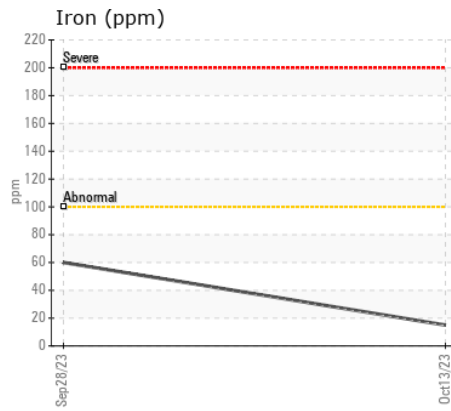
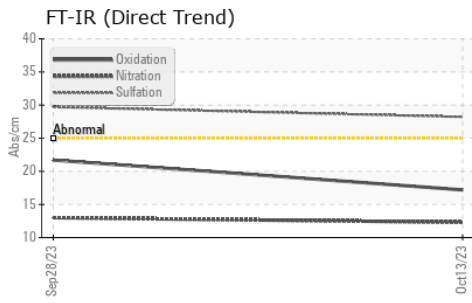
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	12	---
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	28	---
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>1.5</b>	2.6	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.3</b>	13.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>28.2</b>	29.7	---
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>4</b>	4	---
Boron	ppm	ASTM D5185m		<b>48</b>	15	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>5</b>	4	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>698</b>	780	---
Calcium	ppm	ASTM D5185m	2900	<b>1369</b>	1487	---
Phosphorus	ppm	ASTM D5185m	1100	<b>783</b>	746	---
Zinc	ppm	ASTM D5185m	1200	<b>818</b>	888	---
Sulfur	ppm	ASTM D5185m	4000	<b>2937</b>	3060	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.2</b>	21.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>8.89</b>	6.02	---
Visc @ 100°C	cSt	ASTM D445	11.9	<b>12.2</b>	● 13.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0377985  
**Lab Number** : 05993797  
**Unique Number** : 10722157  
**Test Package** : MOB 2

**Received** : 30 Oct 2023  
**Tested** : 31 Oct 2023  
**Diagnosed** : 31 Oct 2023 - Wes Davis

**LTI/MILKY WAY - VANCOUVER**  
 2631 SCOTT AVE  
 VANCOUVER, WA  
 US 98660

Contact: CHRIS MURPHY  
 cmurphy@lynden.com  
 T: (360)759-2650  
 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)