



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**3999**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 XLE 10W30 (46 QTS)**

## 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>WC0906921</b>	WC0663238	WC0816686
Sample Date		Client Info		<b>14 Feb 2024</b>	25 Sep 2023	20 Jun 2023
Machine Age	mls	Client Info		<b>61219</b>	79993	13001
Oil Age	mls	Client Info		<b>0</b>	67164	13001
Filter Age	mls	Client Info		<b>61219</b>	67164	13001
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>35</b>	20	33
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>14</b>	8	18
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>9</b>	8	18
Tin	ppm	ASTM D5185m	>15	<b>2</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

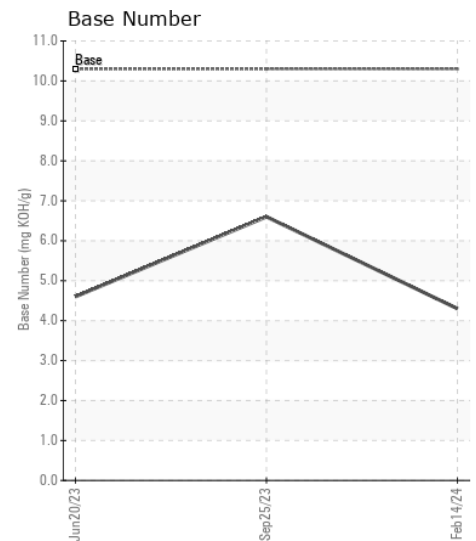
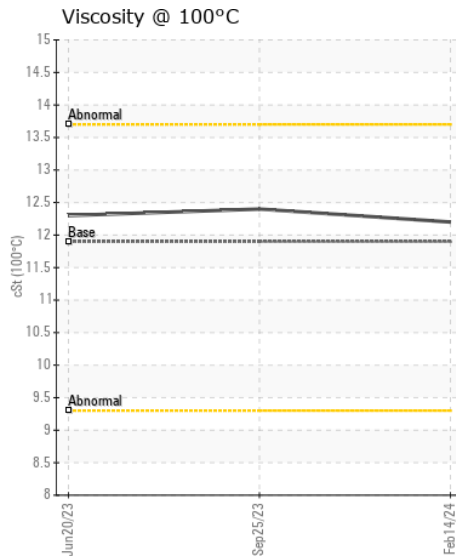
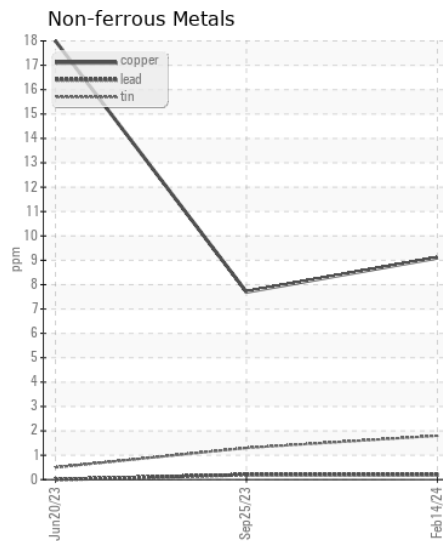
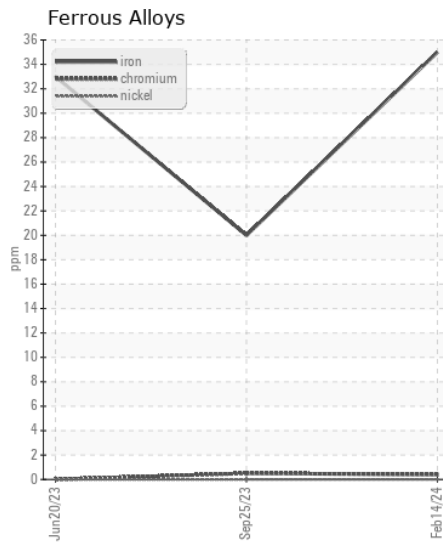
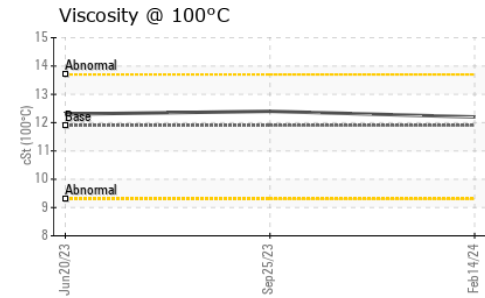
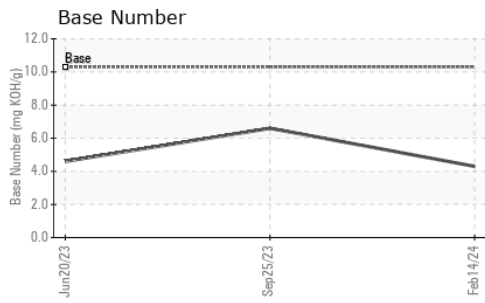
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	7	8
Potassium	ppm	ASTM D5185m	>20	<b>38</b>	24	29
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.4	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.4</b>	9.7	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.2</b>	22.0	27.5
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>3</b>	3	4
Boron	ppm	ASTM D5185m		<b>20</b>	44	15
Barium	ppm	ASTM D5185m		<b>0</b>	0	4
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	2	3
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>759</b>	786	724
Calcium	ppm	ASTM D5185m	2900	<b>1334</b>	1383	1350
Phosphorus	ppm	ASTM D5185m	1100	<b>759</b>	707	677
Zinc	ppm	ASTM D5185m	1200	<b>870</b>	884	817
Sulfur	ppm	ASTM D5185m	4000	<b>2887</b>	2994	3113
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.8</b>	17.1	23.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>4.3</b>	6.6	4.6
Visc @ 100°C	cSt	ASTM D445	11.9	<b>12.2</b>	12.4	12.3



Certificate L2367

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

**Sample No.** : WC0906921

**Lab Number** : 06105040

**Unique Number** : 10903270

**Test Package** : FLEET

**Received** : 29 Feb 2024

**Tested** : 01 Mar 2024

**Diagnosed** : 01 Mar 2024 - Wes Davis

**LTI/MILKY WAY - SUNNYSIDE**

333 MIDVALE RD

SUNNYSIDE, WA

US 98944

Contact: JERRY CRISP

jcrist@ltii.lynden.com

T: (509)839-5844

F: (509)839-6556

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)