



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**CAPACITY 914**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 XLE 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0778993</b>	WC0779014	WC0778943
Sample Date		Client Info		<b>22 Feb 2024</b>	06 Nov 2023	17 Jul 2023
Machine Age	mls	Client Info		<b>26311</b>	8789	8266
Oil Age	mls	Client Info		<b>1337</b>	523	8266
Filter Age	mls	Client Info		<b>1337</b>	523	8266
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>27</b>	31	40
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	3	11
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

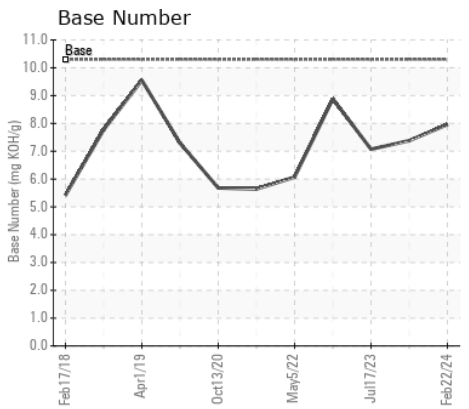
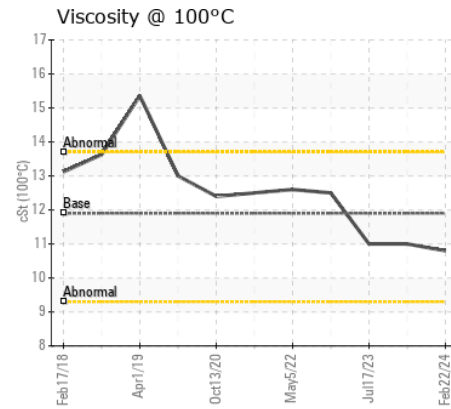
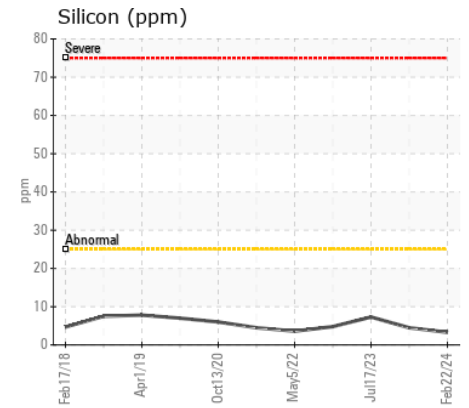
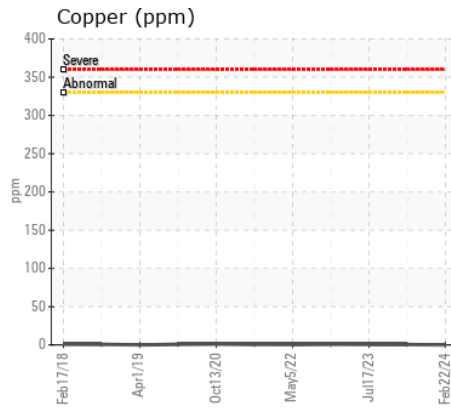
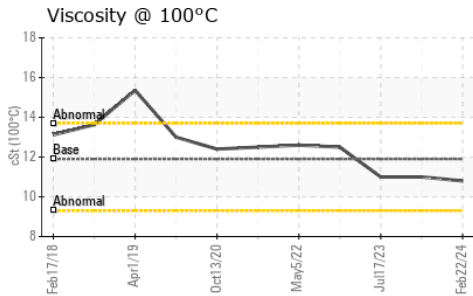
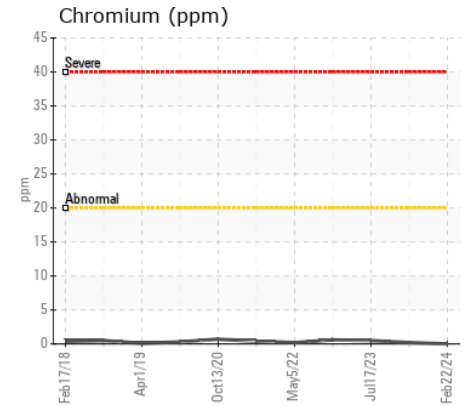
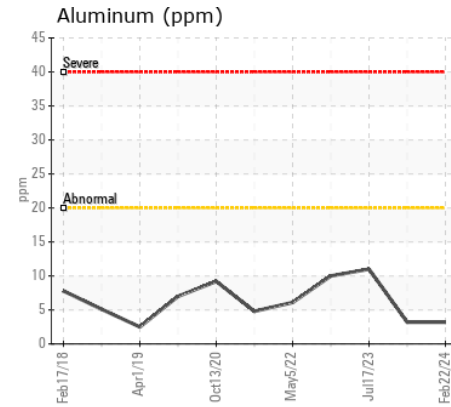
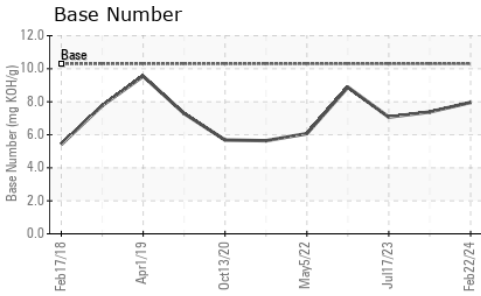
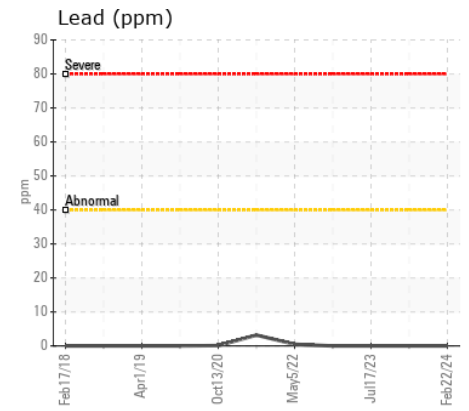
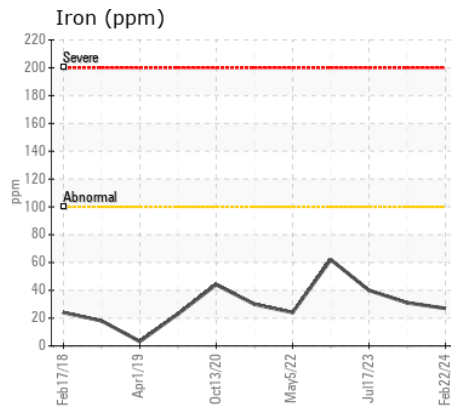
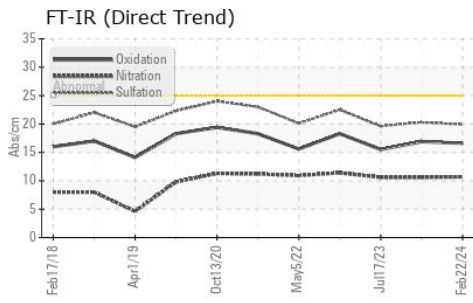
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	4	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	4
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	▲ 3.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	10.6	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.9</b>	20.3	19.6
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>2</b>	<1	3
Boron	ppm	ASTM D5185m		<b>70</b>	62	64
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>4</b>	2	● 5
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>781</b>	680	● 658
Calcium	ppm	ASTM D5185m	2900	<b>1404</b>	1224	1263
Phosphorus	ppm	ASTM D5185m	1100	<b>772</b>	630	● 625
Zinc	ppm	ASTM D5185m	1200	<b>866</b>	775	● 772
Sulfur	ppm	ASTM D5185m	4000	<b>3720</b>	2773	3276
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	16.9	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>7.96</b>	7.38	7.07
Visc @ 100°C	cSt	ASTM D445	11.9	<b>10.8</b>	11.0	▲ 11.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0778993  
**Lab Number** : 06146745  
**Unique Number** : 10976823  
**Test Package** : MOB 2

**LYNDEN TRANSPORT - FIFE**  
 5410 12TH STREET EAST  
 FIFE, WA  
 US 98424

Contact: CHESTER ANGLEMYER  
 chestera@ltia.lynden.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)

T: (253)926-7245  
 F: (253)926-7249