



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**3184**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 XLE 10W30 (--- 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>WC0663225</b>	WC0663198	WC0663230
Sample Date		Client Info		<b>06 Feb 2024</b>	12 Nov 2023	19 Sep 2023
Machine Age	mls	Client Info		<b>151870</b>	116500	102376
Oil Age	mls	Client Info		<b>49232</b>	102638	47659
Filter Age	mls	Client Info		<b>49232</b>	13862	47659
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>34</b>	14	87
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	4
Nickel	ppm	ASTM D5185m	>4	<b>4</b>	3	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>13</b>	5	32
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>13</b>	5	117
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	4
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

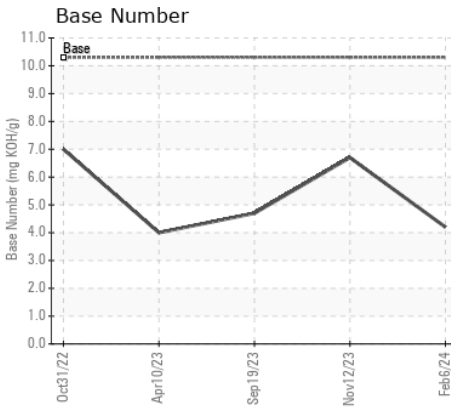
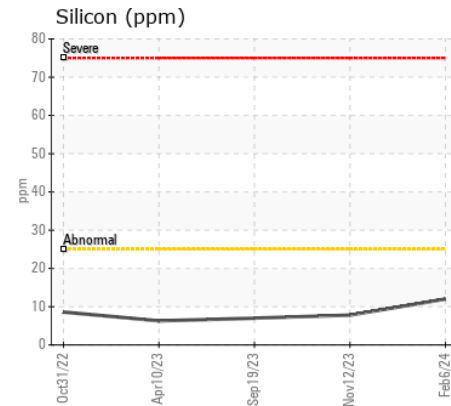
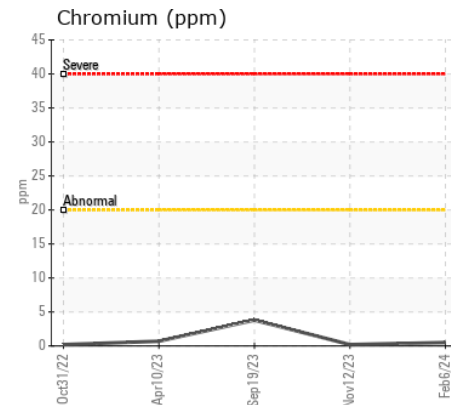
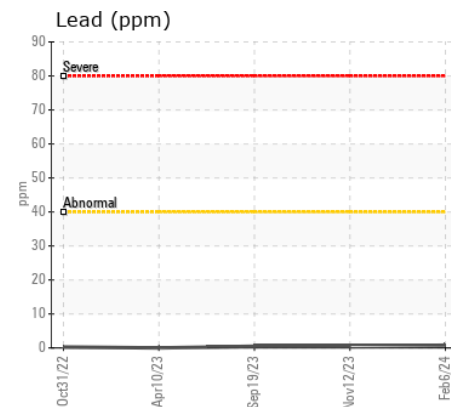
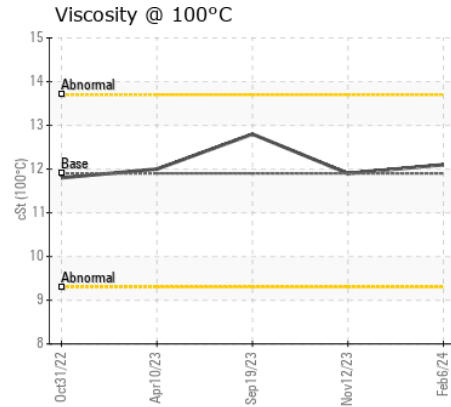
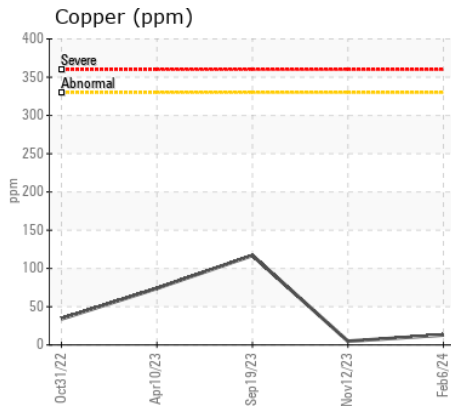
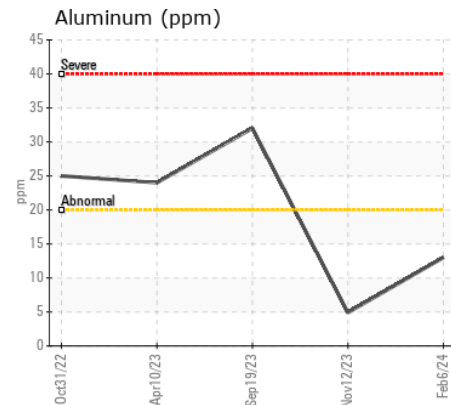
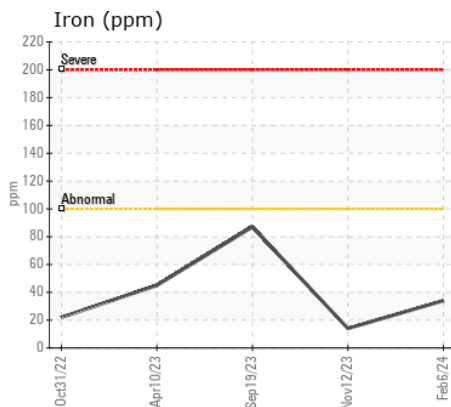
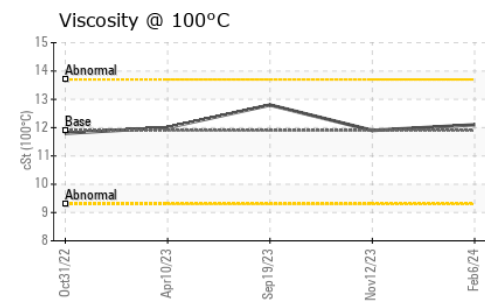
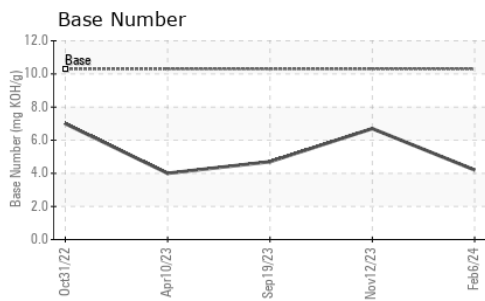
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>12</b>	8	7
Potassium	ppm	ASTM D5185m	>20	<b>18</b>	11	91
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>1</b>	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.7</b>	10.0	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.3</b>	20.6	25.4
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>0</b>	<1	6
Boron	ppm	ASTM D5185m		<b>15</b>	48	4
Barium	ppm	ASTM D5185m		<b>13</b>	9	0
Molybdenum	ppm	ASTM D5185m		<b>3</b>	4	63
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	3
Magnesium	ppm	ASTM D5185m		<b>778</b>	724	952
Calcium	ppm	ASTM D5185m	2900	<b>1415</b>	1326	1272
Phosphorus	ppm	ASTM D5185m	1100	<b>765</b>	742	960
Zinc	ppm	ASTM D5185m	1200	<b>896</b>	837	1215
Sulfur	ppm	ASTM D5185m	4000	<b>3349</b>	3249	2142
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.7</b>	15.8	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>4.2</b>	6.7	4.7
Visc @ 100°C	cSt	ASTM D445	11.9	<b>12.1</b>	11.9	12.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0663225 **Received** : 12 Feb 2024  
**Lab Number** : 06086567 **Tested** : 13 Feb 2024  
**Unique Number** : 10874012 **Diagnosed** : 13 Feb 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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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)