



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**3082**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON SUPREME MOTOR OIL 10W40 (40 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>WC0906910</b>	WC0863270	WC0863308
Sample Date		Client Info		<b>06 Apr 2024</b>	11 Dec 2023	07 Dec 2023
Machine Age	mls	Client Info		<b>401654</b>	376107	376139
Oil Age	mls	Client Info		<b>356443</b>	356443	356443
Filter Age	mls	Client Info		<b>45211</b>	19664	19696
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>18</b>	10	6
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	4	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>3</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

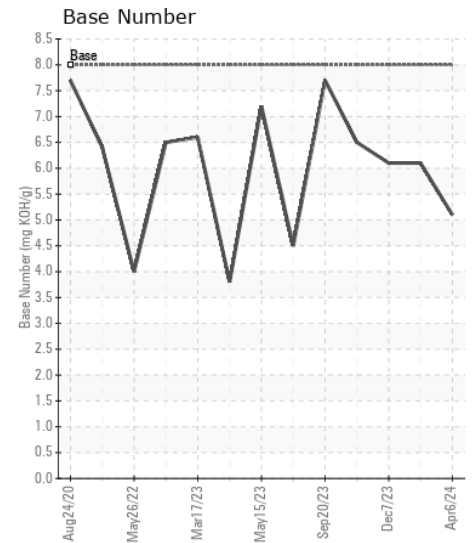
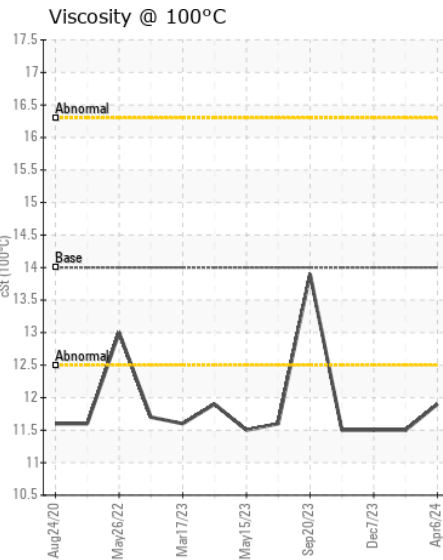
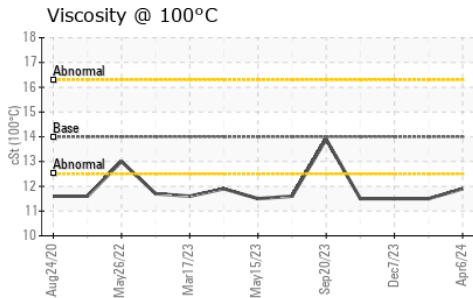
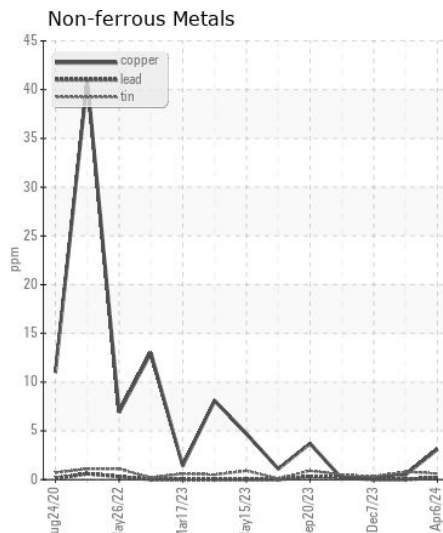
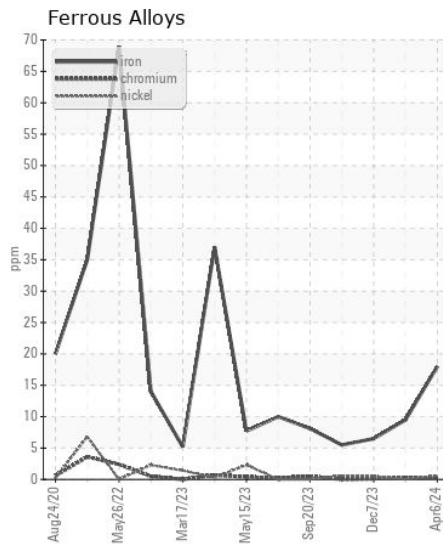
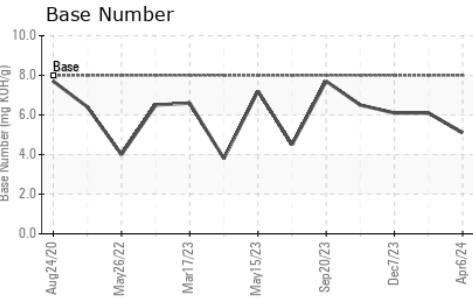
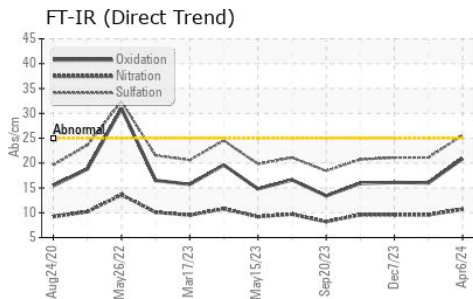
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>13</b>	11	11
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	5	6
Fuel	%	ASTM D3524	>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>0.6</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	9.6	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.6</b>	21.1	21.1
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>5</b>	3	2
Boron	ppm	ASTM D5185m		<b>28</b>	34	34
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>5</b>	4	2
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>789</b>	781	768
Calcium	ppm	ASTM D5185m		<b>1408</b>	1390	1323
Phosphorus	ppm	ASTM D5185m	990	<b>782</b>	790	743
Zinc	ppm	ASTM D5185m	1100	<b>872</b>	877	835
Sulfur	ppm	ASTM D5185m		<b>3555</b>	3195	2976
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.9</b>	16.0	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	<b>5.1</b>	6.1	6.1
Visc @ 100°C	cSt	ASTM D445	14.0	<b>11.9</b>	11.5	11.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0906910 **Received** : 18 Apr 2024  
**Lab Number** : 06153748 **Tested** : 23 Apr 2024  
**Unique Number** : 10983826 **Diagnosed** : 23 Apr 2024 - Sean Felton  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**LTI/MILKY WAY - SUNNYSIDE**  
 333 MIDVALE RD  
 SUNNYSIDE, WA  
 US 98944  
 Contact: JERRY CRISP  
 jcrisp@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)