



# OIL ANALYSIS REPORT

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

Machine Id  
**3993**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON SUPREME MOTOR OIL 10W40 (--- 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>WC0906868</b>	WC0906929	WC0863256
Sample Date		Client Info		<b>12 Apr 2024</b>	16 Feb 2024	24 Dec 2023
Machine Age	mls	Client Info		<b>55477</b>	46477	38327
Oil Age	mls	Client Info		<b>46625</b>	0	16160
Filter Age	mls	Client Info		<b>8852</b>	46477	22167
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>16</b>	59	37
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>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	20	15
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>5</b>	10	5
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	2
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

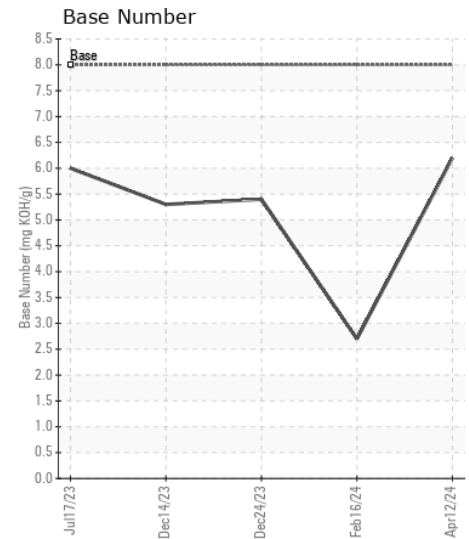
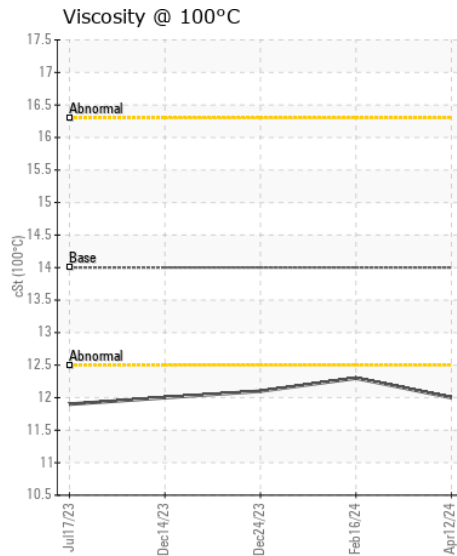
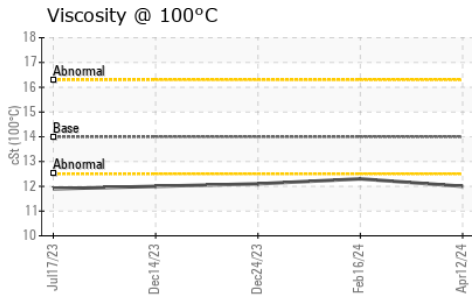
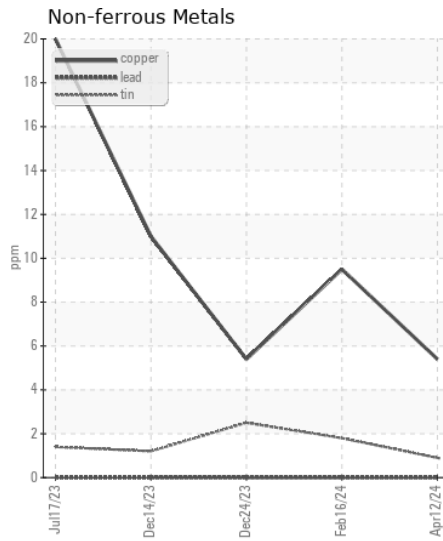
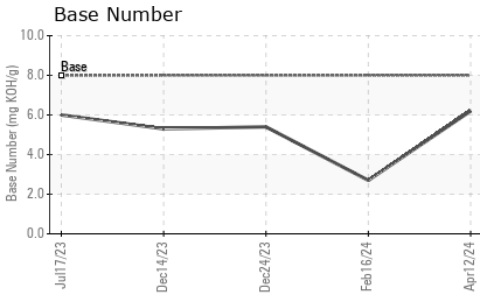
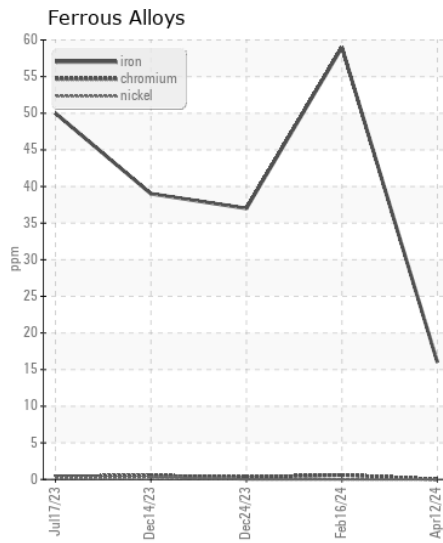
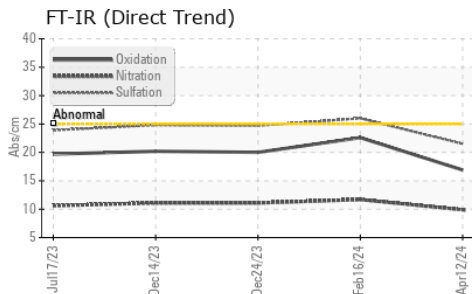
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	10	7
Potassium	ppm	ASTM D5185m	>20	<b>12</b>	49	43
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>0.4</b>	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.9</b>	11.7	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.5</b>	26.0	24.7
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>4</b>	4	<1
Boron	ppm	ASTM D5185m		<b>42</b>	21	26
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>774</b>	758	808
Calcium	ppm	ASTM D5185m		<b>1348</b>	1390	1403
Phosphorus	ppm	ASTM D5185m	990	<b>764</b>	726	797
Zinc	ppm	ASTM D5185m	1100	<b>841</b>	796	907
Sulfur	ppm	ASTM D5185m		<b>3561</b>	2777	3225
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.9</b>	22.6	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	<b>6.2</b>	▲ 2.7	5.4
Visc @ 100°C	cSt	ASTM D445	14.0	<b>12.0</b>	12.3	12.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0906868 **Received** : 18 Apr 2024  
**Lab Number** : 06153752 **Tested** : 23 Apr 2024  
**Unique Number** : 10983830 **Diagnosed** : 23 Apr 2024 - Sean Felton  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**LTI/MILKY WAY - SUNNYSIDE**  
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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)