



# OIL ANALYSIS REPORT

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

Machine Id  
**46511**  
Component  
**Diesel Engine**  
Fluid  
**CHEV (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0900415</b>	WC0688576	---
Sample Date		Client Info		<b>23 Feb 2024</b>	05 Jan 2023	---
Machine Age	mls	Client Info		<b>41249</b>	23421	---
Oil Age	mls	Client Info		<b>17828</b>	23421	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>34</b>	63	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	4	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	37	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	2	---
Copper	ppm	ASTM D5185m	>330	<b>6</b>	20	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

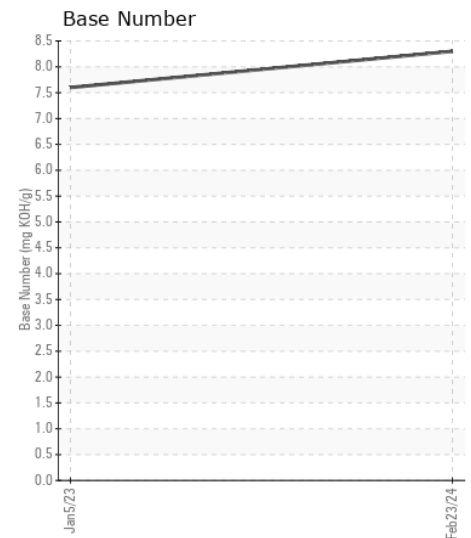
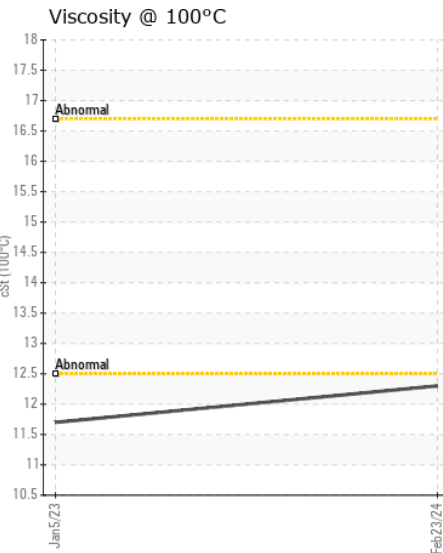
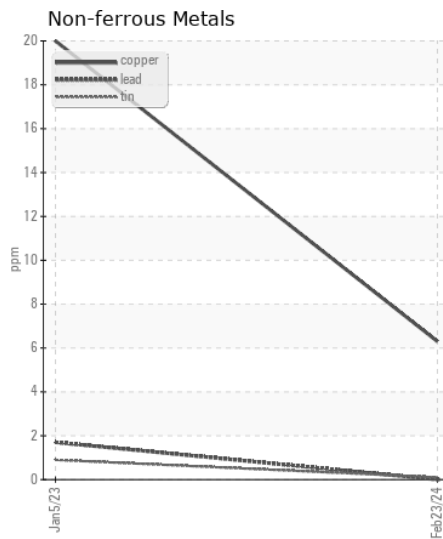
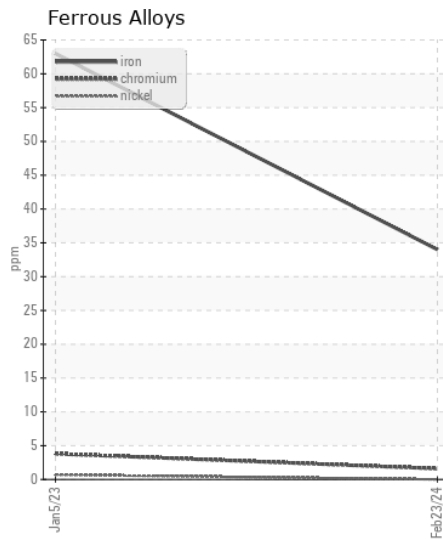
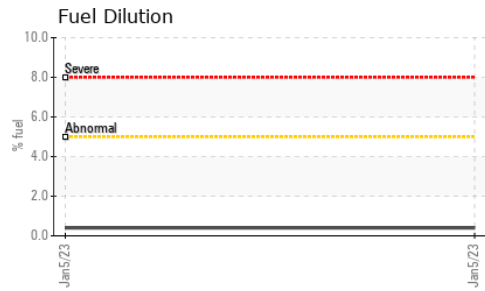
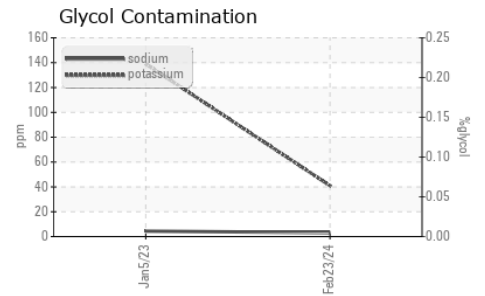
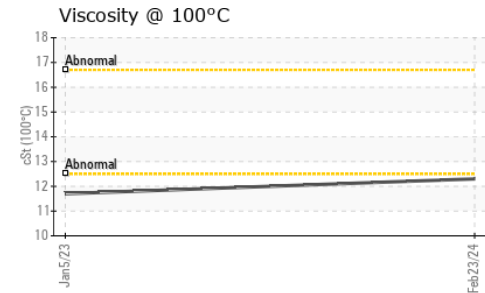
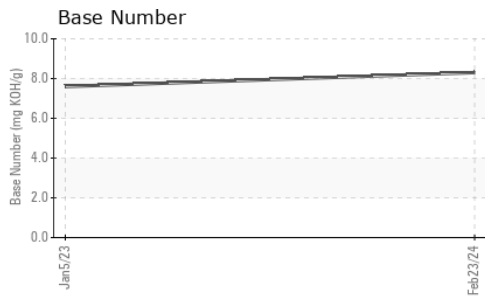
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	14	---
Potassium	ppm	ASTM D5185m	>20	<b>41</b>	139	---
Fuel	%	ASTM D3524	>5	<b>&lt;1.0</b>	0.4	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.7</b>	8.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.2</b>	21.4	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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>	4	---
Boron	ppm	ASTM D5185m		<b>10</b>	42	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>74</b>	62	---
Manganese	ppm	ASTM D5185m		<b>2</b>	4	---
Magnesium	ppm	ASTM D5185m		<b>947</b>	438	---
Calcium	ppm	ASTM D5185m		<b>1235</b>	1618	---
Phosphorus	ppm	ASTM D5185m		<b>1161</b>	978	---
Zinc	ppm	ASTM D5185m		<b>1339</b>	1213	---
Sulfur	ppm	ASTM D5185m		<b>3528</b>	3377	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.7</b>	16.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.3</b>	7.6	---
Visc @ 100°C	cSt	ASTM D445		<b>12.3</b>	11.7	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0900415 **Received** : 28 Feb 2024  
**Lab Number** : 06103534 **Tested** : 04 Mar 2024  
**Unique Number** : 10901764 **Diagnosed** : 04 Mar 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FuelDilution, Glycol, PercentFuel )

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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)