



# OIL ANALYSIS REPORT

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

Machine Id  
**USL2592**  
Component  
**Diesel Engine**  
Fluid  
**CHEV (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0819501</b>	WC0842562	WC0799563
Sample Date		Client Info		<b>12 Jan 2024</b>	31 Jul 2023	05 May 2023
Machine Age	mls	Client Info		<b>53382</b>	30423	18335
Oil Age	mls	Client Info		<b>22459</b>	12088	18335
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ATTENTION	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>25</b>	15	42
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	2
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>24</b>	19	27
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>123</b>	299	171
Tin	ppm	ASTM D5185m	>15	<b>1</b>	1	4
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

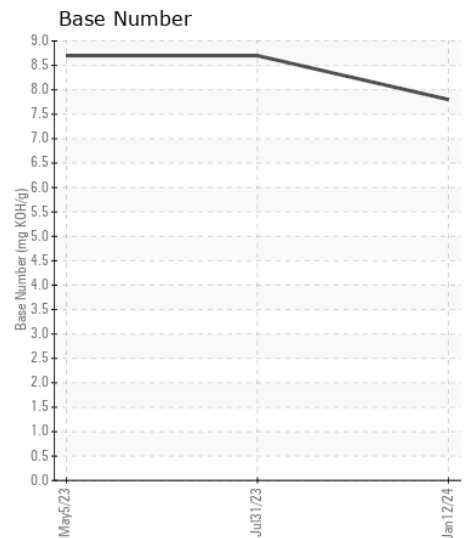
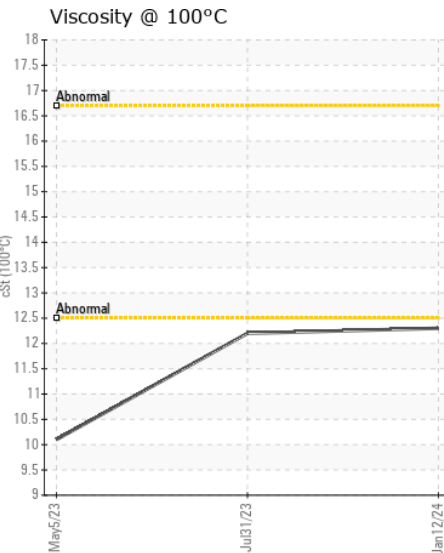
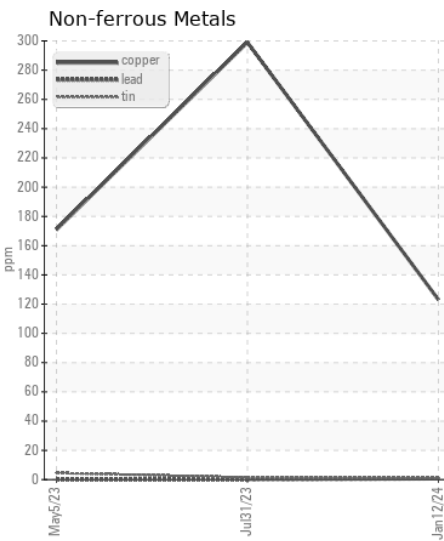
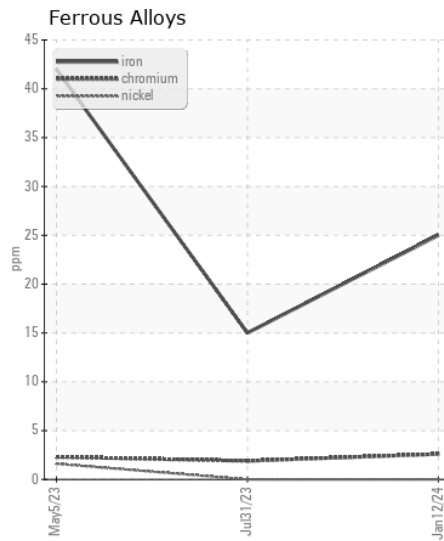
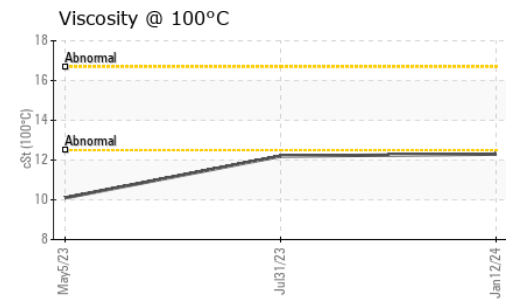
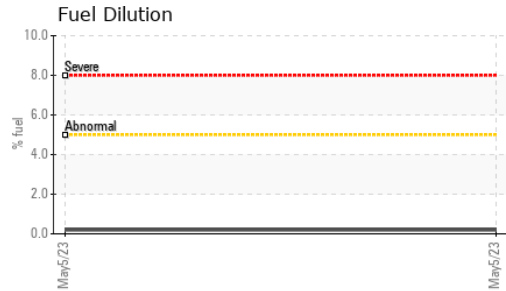
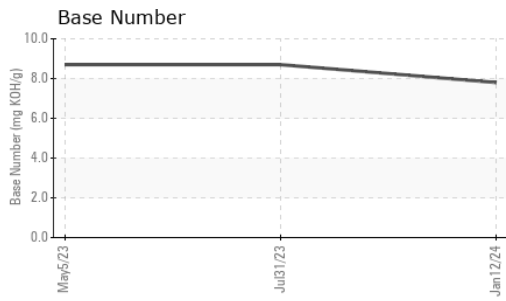
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	3	8
Potassium	ppm	ASTM D5185m	>20	<b>57</b>	41	92
Fuel	%	ASTM D3524	>5	<b>&lt;1.0</b>	<1.0	0.2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.9</b>	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	7.6	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.9</b>	20.9	24.6
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	2
Boron	ppm	ASTM D5185m		<b>4</b>	5	38
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	6	0
Molybdenum	ppm	ASTM D5185m		<b>66</b>	52	44
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	3
Magnesium	ppm	ASTM D5185m		<b>1000</b>	892	514
Calcium	ppm	ASTM D5185m		<b>1152</b>	1112	1745
Phosphorus	ppm	ASTM D5185m		<b>1002</b>	938	730
Zinc	ppm	ASTM D5185m		<b>1251</b>	1228	911
Sulfur	ppm	ASTM D5185m		<b>2473</b>	3200	2109
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.4</b>	15.9	22.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.8</b>	8.7	8.7
Visc @ 100°C	cSt	ASTM D445		<b>12.3</b>	▲ 12.2	▲ 10.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0819501 **Received** : 18 Jan 2024  
**Lab Number** : 06064739 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10836121 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FuelDilution )

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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)