



# OIL ANALYSIS REPORT

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

Machine Id  
**USL2593**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON 15W40 (--- QTS)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

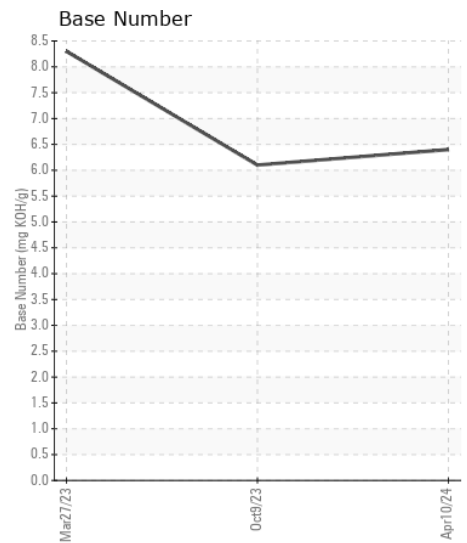
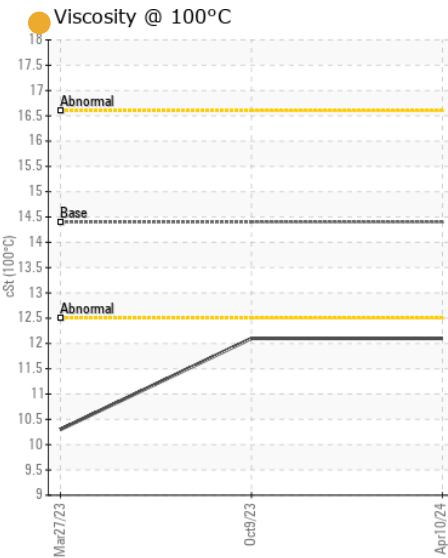
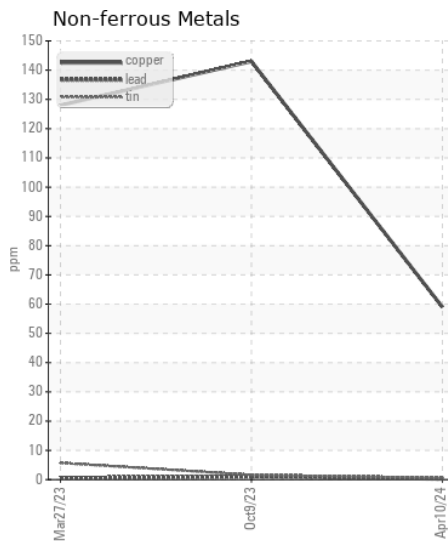
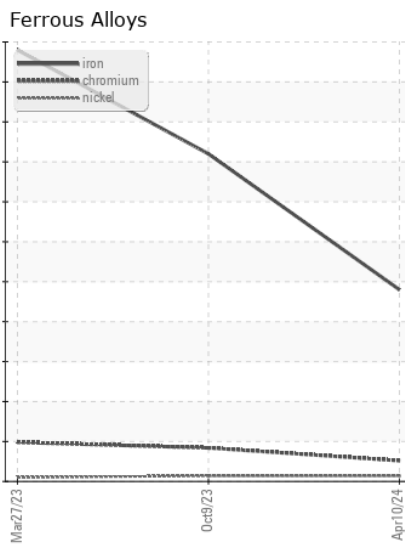
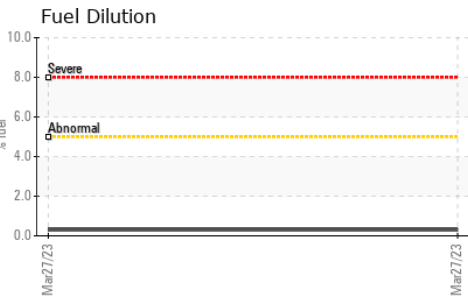
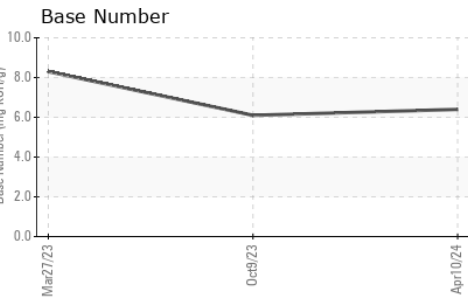
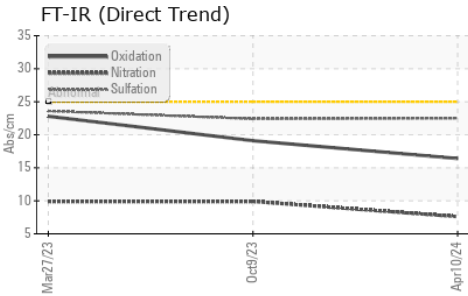
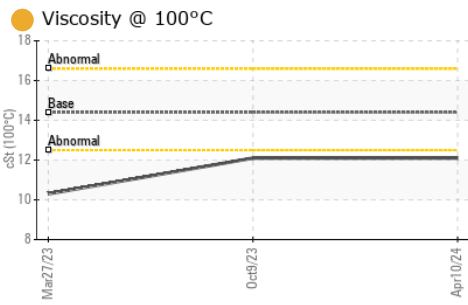
## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0918499</b>	WC0857881	WC0763314
Sample Date		Client Info		<b>10 Apr 2024</b>	09 Oct 2023	27 Mar 2023
Machine Age	mls	Client Info		<b>118091</b>	73735	26538
Oil Age	mls	Client Info		<b>23461</b>	47197	26538
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>ATTENTION</b>	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>100	<b>24</b>	41	54
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	4	5
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>13</b>	35	66
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m	>330	<b>59</b>	143	128
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	6
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
Silicon	ppm	ASTM D5185m	>25	<b>9</b>	7	8
Potassium	ppm	ASTM D5185m	>20	<b>20</b>	85	133
Fuel	%	ASTM D3524	>5	<b>&lt;1.0</b>	<1.0	0.3
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>	1.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	9.9	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.5</b>	22.4	23.6
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
Sodium	ppm	ASTM D5185m	>50	<b>2</b>	4	5
Boron	ppm	ASTM D5185m		<b>338</b>	3	34
Barium	ppm	ASTM D5185m		<b>0</b>	4	0
Molybdenum	ppm	ASTM D5185m		<b>124</b>	71	44
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	3
Magnesium	ppm	ASTM D5185m		<b>675</b>	865	617
Calcium	ppm	ASTM D5185m		<b>1954</b>	1178	1924
Phosphorus	ppm	ASTM D5185m		<b>1496</b>	853	786
Zinc	ppm	ASTM D5185m		<b>1751</b>	1088	1027
Sulfur	ppm	ASTM D5185m		<b>4397</b>	1953	2533
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.4</b>	19.1	22.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.4</b>	6.1	8.3
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.1</b>	12.1	10.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0918499 **Received** : 19 Apr 2024  
**Lab Number** : 06155144 **Tested** : 24 Apr 2024  
**Unique Number** : 10990567 **Diagnosed** : 24 Apr 2024 - Sean Felton  
**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)