

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**chevy 215175**

Component  
**Diesel Engine**

Fluid  
**TULCO LUBSOIL CK-4 15W40 (3 GAL)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

Metal levels are typical for a new component breaking in.

**Contamination**

There is no indication of any contamination in the oil.

**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.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>TO10003478</b>	---	---
Sample Date	Client Info	<b>09 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>878</b>	---
Oil Age	hrs	Client Info	<b>350</b>	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

**CONTAMINATION** method limit/base current history1 history2

Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

**WEAR METALS** method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>100	<b>19</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>3</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>201</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185m		<b>30</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	65	<b>63</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	1060	<b>1027</b>	---	---
Calcium	ppm	ASTM D5185m	1140	<b>765</b>	---	---
Phosphorus	ppm	ASTM D5185m	1170	<b>971</b>	---	---
Zinc	ppm	ASTM D5185m	1230	<b>1086</b>	---	---
Sulfur	ppm	ASTM D5185m	3130	<b>3380</b>	---	---

**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>25	<b>9</b>	---	---
Sodium	ppm	ASTM D5185m		<b>4</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---

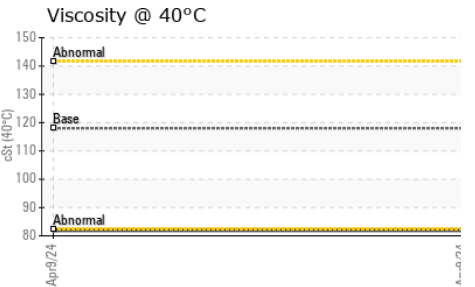
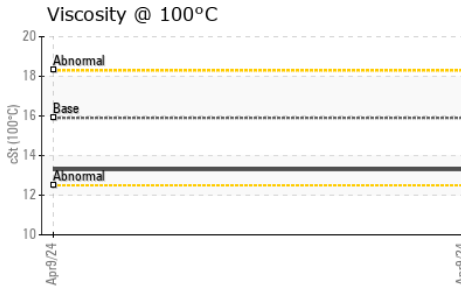
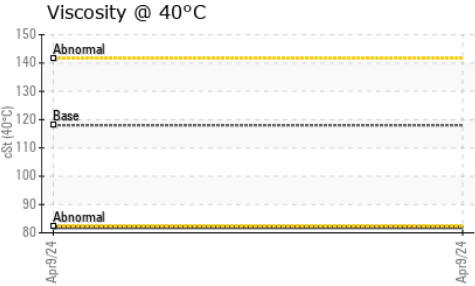
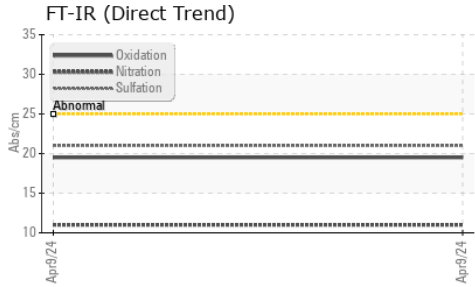
**INFRA-RED** method limit/base current history1 history2

Soot %	%	*ASTM D7844	>3	<b>0.4</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.0</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.0</b>	---	---

**FLUID DEGRADATION** method limit/base current history1 history2

Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.5</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.8	<b>5.95</b>	---	---

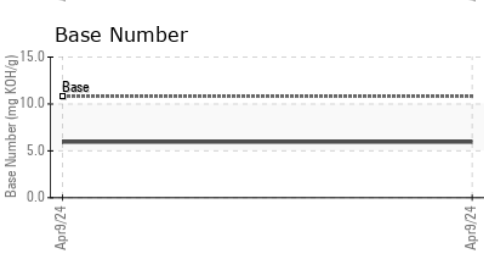
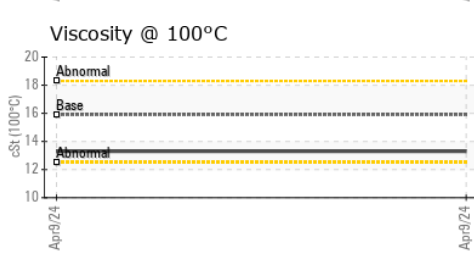
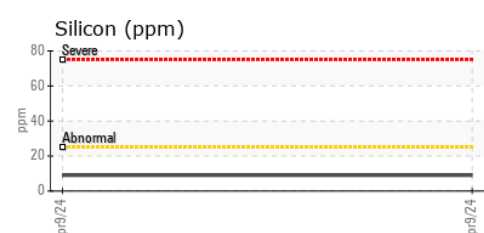
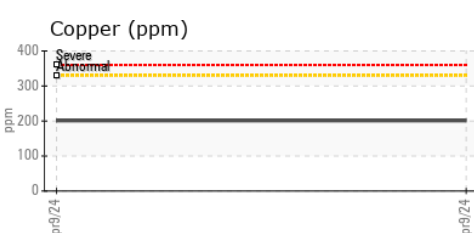
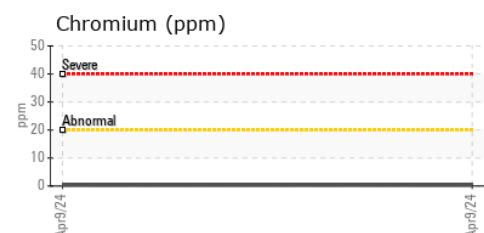
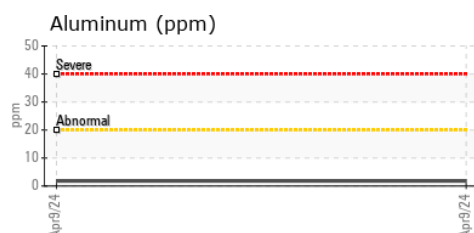
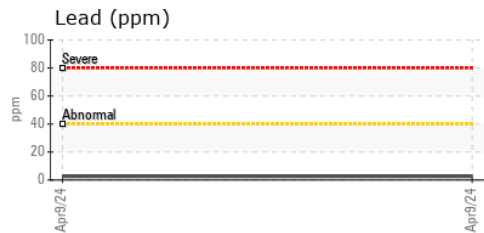
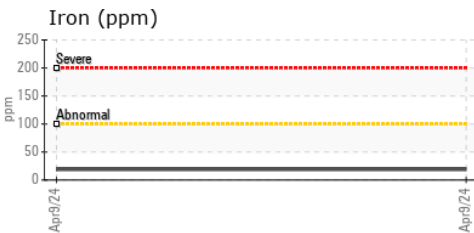
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	118	81.9	---	---
Visc @ 100°C	cSt	ASTM D445	15.9	13.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270	143	164	---	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10003478      **Received** : 19 Apr 2024  
**Lab Number** : 06154669      **Tested** : 23 Apr 2024  
**Unique Number** : 10990092      **Diagnosed** : 23 Apr 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

**KLX ENERGY SERVICES**  
 5104 ESTES PKWY  
 LONGVIEW, TX  
 US 75603  
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 dustin.trest@klx.com

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)