



Machine Id  
**NO UNIT 02592008**

Component  
**Diesel Engine**

Fluid  
**CHEVRON DELO 400 SYNTHETIC 5W40 (--- GAL)**



**DIAGNOSIS**

**Recommendation**

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

**Wear**

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. We have assumed that this component is not breaking in (age of component not reported).

**Contamination**

There is no indication of any contamination in the oil.

**Fluid Condition**

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC</b>	---	---
Sample Date	Client Info	<b>25 Oct 2023</b>	---	---
Machine Age	hrs	<b>0</b>	---	---
Oil Age	hrs	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

**CONTAMINATION**

method	limit/base	current	history1	history2
Fuel	WC Method >5	<b>&lt;1.0</b>	---	---
Glycol	WC Method	<b>NEG</b>	---	---

**WEAR METALS**

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>19</b>	---	---
Iron	ppm ASTM D5185(m) >100	<b>▲ 128</b>	---	---
Chromium	ppm ASTM D5185(m) >20	<b>2</b>	---	---
Nickel	ppm ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Aluminum	ppm ASTM D5185(m) >20	<b>2</b>	---	---
Lead	ppm ASTM D5185(m) >40	<b>1</b>	---	---
Copper	ppm ASTM D5185(m) >330	<b>15</b>	---	---
Tin	ppm ASTM D5185(m) >15	<b>0</b>	---	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	---	---

**ADDITIVES**

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>20</b>	---	---
Barium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Molybdenum	ppm ASTM D5185(m)	<b>59</b>	---	---
Manganese	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185(m)	<b>1043</b>	---	---
Calcium	ppm ASTM D5185(m)	<b>841</b>	---	---
Phosphorus	ppm ASTM D5185(m) 1150	<b>854</b>	---	---
Zinc	ppm ASTM D5185(m) 1270	<b>1099</b>	---	---
Sulfur	ppm ASTM D5185(m) 2900	<b>2621</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

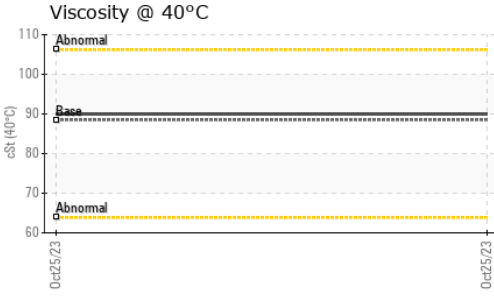
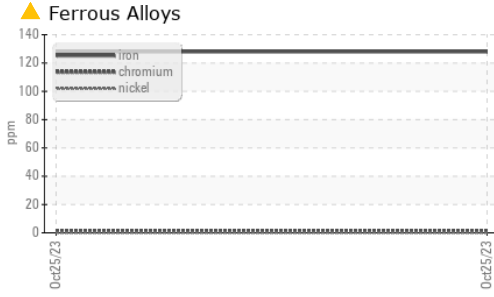
**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>6</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>6</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>1</b>	---	---

**INFRA-RED**

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0.7</b>	---	---
Nitration	Abs/cm ASTM D7624* >20	<b>15.1</b>	---	---
Sulfation	Abs./1mm ASTM D7415* >30	<b>26.3</b>	---	---

# OIL ANALYSIS REPORT

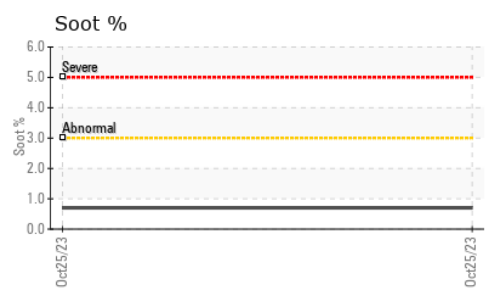
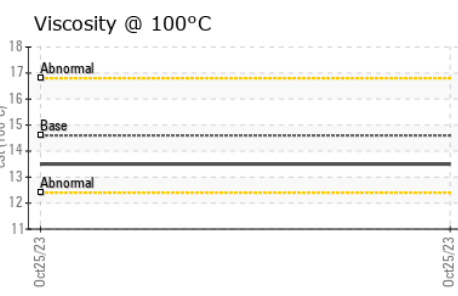
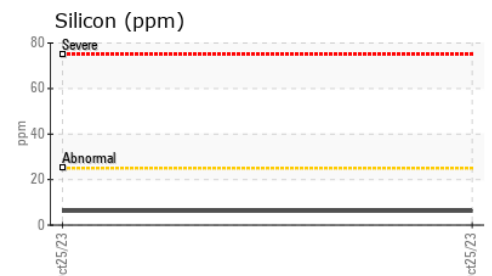
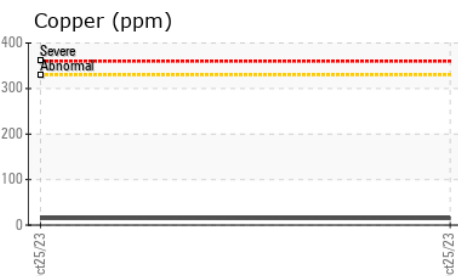
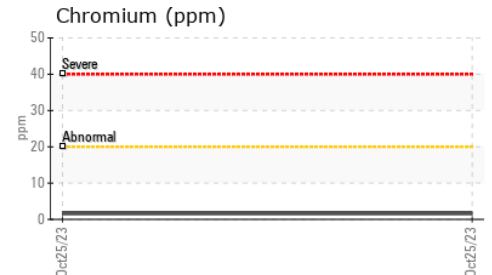
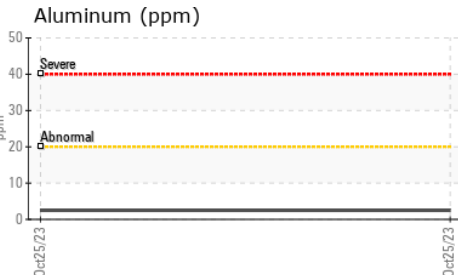
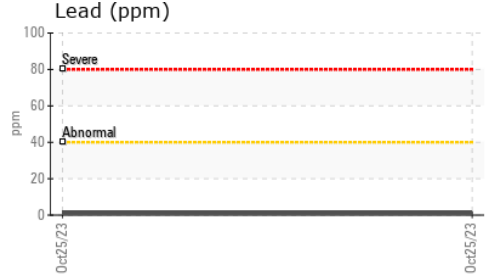
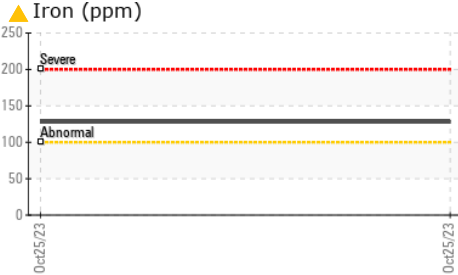


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>30.0</b>	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	88.5	<b>90.0</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.6	<b>13.5</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	168	<b>151</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations  
**Sample No.** : PC **Received** : 26 Oct 2023 151 Ram Forest Rd,  
**Lab Number** : 02592008 **Diagnosed** : 27 Oct 2023 Stouffville, ON  
**Unique Number** : 5669087 **Diagnostician** : Kevin Marson CA L4A 2G8  
**Test Package** : MOB 1 ( Additional Tests: KV40, PQ, VI ) Contact: Bill Acton  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. bacton@gipi.com  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:  
 Validity of results and interpretation are based on the sample and information as supplied. F: