



# OIL ANALYSIS REPORT

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

Machine Id  
**8575261**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 SAE 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0017101</b>	RPL0017182	---
Sample Date		Client Info		<b>10 May 2024</b>	21 Feb 2024	---
Machine Age	mls	Client Info		<b>19565</b>	11244	---
Oil Age	mls	Client Info		<b>0</b>	0	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>14</b>	47	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
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>6</b>	11	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>4</b>	40	---
Tin	ppm	ASTM D5185m	>15	<b>0</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.

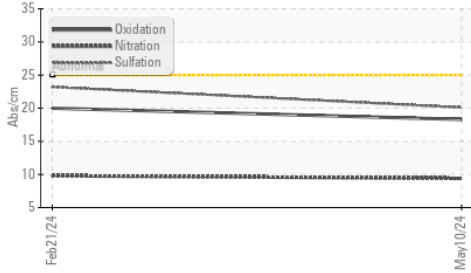
Silicon	ppm	ASTM D5185m	>25	<b>11</b>	▲ 53	---
Potassium	ppm	ASTM D5185m	>20	<b>16</b>	22	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.4</b>	9.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.1</b>	23.2	---
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

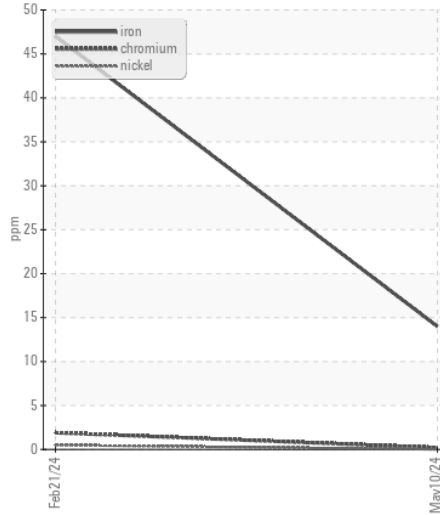
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	5	---
Boron	ppm	ASTM D5185m		<b>45</b>	217	---
Barium	ppm	ASTM D5185m		<b>0</b>	8	---
Molybdenum	ppm	ASTM D5185m		<b>42</b>	125	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	6	---
Magnesium	ppm	ASTM D5185m		<b>510</b>	727	---
Calcium	ppm	ASTM D5185m		<b>1594</b>	1482	---
Phosphorus	ppm	ASTM D5185m	1260	<b>705</b>	730	---
Zinc	ppm	ASTM D5185m	1400	<b>858</b>	896	---
Sulfur	ppm	ASTM D5185m		<b>2636</b>	2645	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.3</b>	20.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>5.9</b>	7.2	---
Visc @ 100°C	cSt	ASTM D445	11.1	<b>11.1</b>	12.5	---

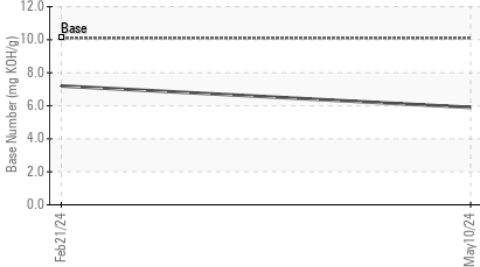
**FT-IR (Direct Trend)**



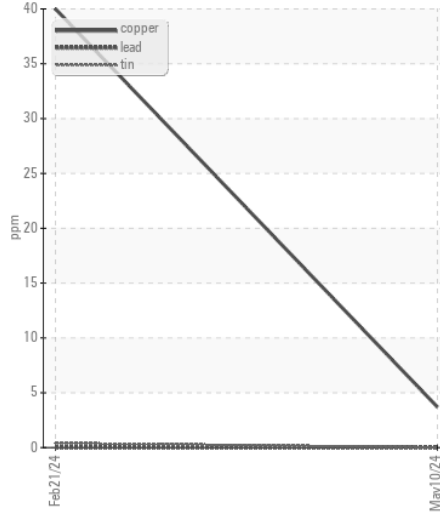
**Ferrous Alloys**



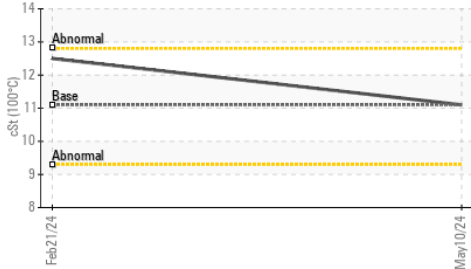
**Base Number**



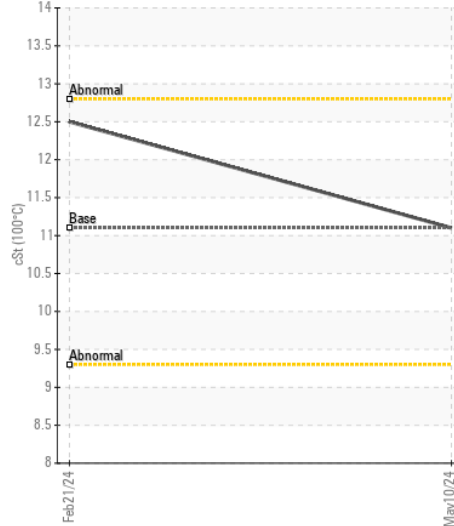
**Non-ferrous Metals**



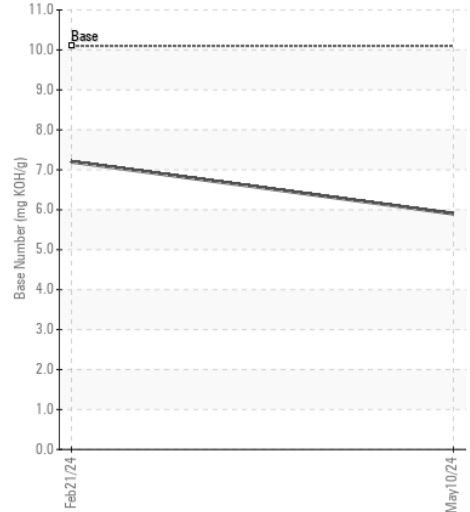
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0017101  
**Lab Number** : 06195209  
**Unique Number** : 11057332  
**Test Package** : FLEET

**Received** : 30 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 31 May 2024 - Wes Davis

**RTL PACLEASE - 7053 -NW Houston**  
 5808 W Sam Houston Pkwy N  
 Houston, TX  
 US 77041  
 Contact: GREG JUDGE  
 judgeg@rushenterprises.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)

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F: