



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**957-1591**  
 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>RPL0014254</b>	RPL0014653	RPL0010486
Sample Date		Client Info		<b>15 Mar 2024</b>	09 Nov 2023	18 Apr 2023
Machine Age	hrs	Client Info		<b>5298</b>	131438	99710
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>25</b>	30	46
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	4
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	10	20
Lead	ppm	ASTM D5185m	>40	<b>2</b>	6	10
Copper	ppm	ASTM D5185m	>330	<b>2</b>	5	4
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	1
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.

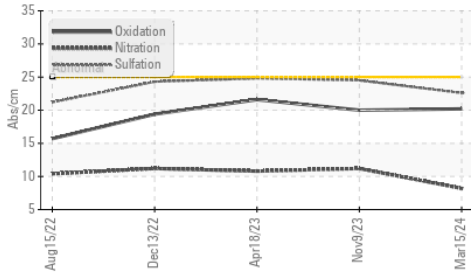
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	7	11
Potassium	ppm	ASTM D5185m	>20	<b>17</b>	26	60
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.2</b>	11.2	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.6</b>	24.5	24.8
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

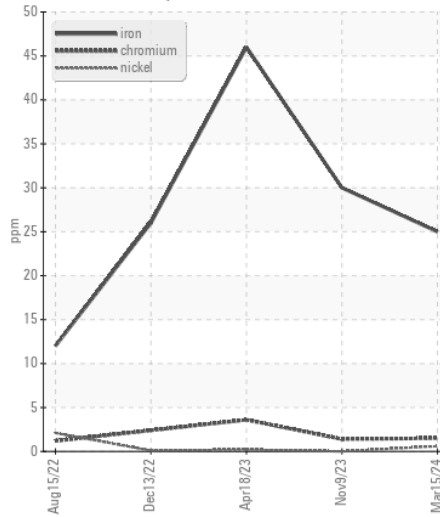
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>1</b>	4	6
Boron	ppm	ASTM D5185m		<b>57</b>	17	17
Barium	ppm	ASTM D5185m		<b>1</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>42</b>	13	16
Manganese	ppm	ASTM D5185m		<b>1</b>	0	2
Magnesium	ppm	ASTM D5185m		<b>517</b>	690	776
Calcium	ppm	ASTM D5185m		<b>1634</b>	1375	1366
Phosphorus	ppm	ASTM D5185m	1260	<b>798</b>	668	730
Zinc	ppm	ASTM D5185m	1400	<b>897</b>	845	884
Sulfur	ppm	ASTM D5185m		<b>2814</b>	3223	3636
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.2</b>	20.0	21.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>9.8</b>	5.5	3.6
Visc @ 100°C	cSt	ASTM D445	11.1	<b>10.8</b>	11.1	11.4

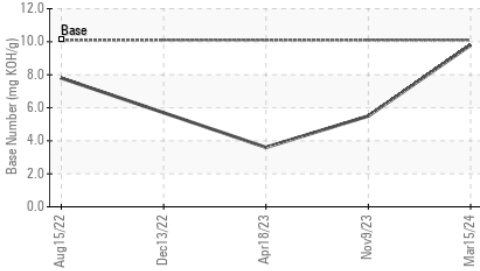
**FT-IR (Direct Trend)**



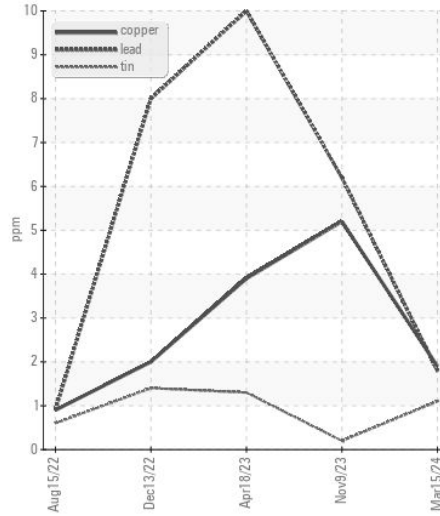
**Ferrous Alloys**



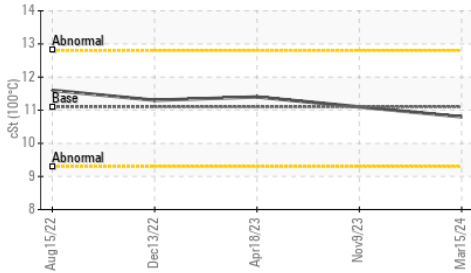
**Base Number**



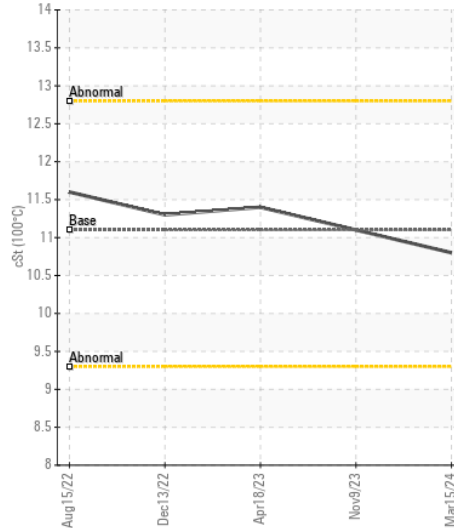
**Non-ferrous Metals**



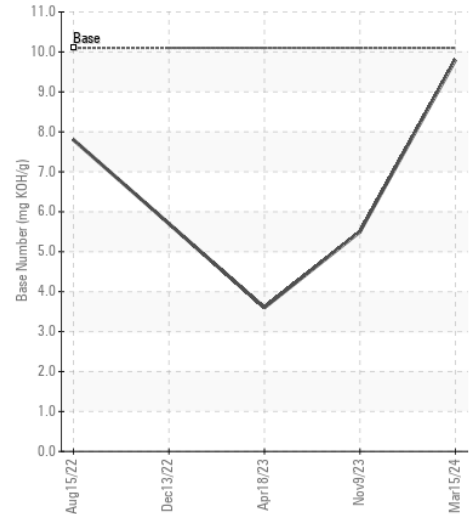
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0014254  
**Lab Number** : 06149927  
**Unique Number** : 10980005  
**Test Package** : FLEET

**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 17 Apr 2024 - Wes Davis

**RTL PACLEASE - 7001 - Houston**  
 6300 N. Loop East  
 Houston, TX  
 US 77026

Contact: RODNEY BRIGGS  
 briggsr@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: