



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**857-4758**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 SAE 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0014277</b>	RPL0014610	RPL0010561
Sample Date		Client Info		<b>07 Mar 2024</b>	21 Nov 2023	22 Mar 2023
Machine Age	hrs	Client Info		<b>4443</b>	3307	51838
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 Chngd</b>	N/A	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>19</b>	11	44
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	3
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	6	23
Lead	ppm	ASTM D5185m	>40	<b>3</b>	0	2
Copper	ppm	ASTM D5185m	>330	<b>1</b>	<1	6
Tin	ppm	ASTM D5185m	>15	<b>1</b>	0	2
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.

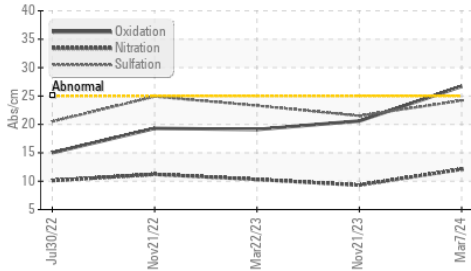
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	6	13
Potassium	ppm	ASTM D5185m	>20	<b>23</b>	17	69
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.1</b>	9.3	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.2</b>	21.5	23.3
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

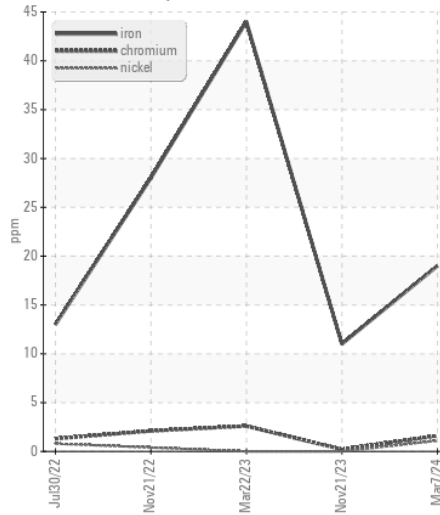
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	4
Boron	ppm	ASTM D5185m		<b>28</b>	37	19
Barium	ppm	ASTM D5185m		<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>47</b>	40	3
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Magnesium	ppm	ASTM D5185m		<b>526</b>	542	761
Calcium	ppm	ASTM D5185m		<b>1717</b>	1624	1451
Phosphorus	ppm	ASTM D5185m	1260	<b>798</b>	782	721
Zinc	ppm	ASTM D5185m	1400	<b>952</b>	928	863
Sulfur	ppm	ASTM D5185m		<b>2740</b>	2693	3687
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>26.7</b>	20.6	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>6.3</b>	8.4	4.0
Visc @ 100°C	cSt	ASTM D445	11.1	<b>11.2</b>	11.3	11.6

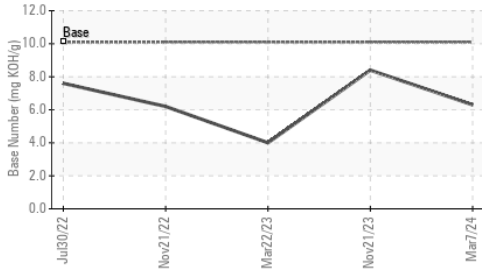
**FT-IR (Direct Trend)**



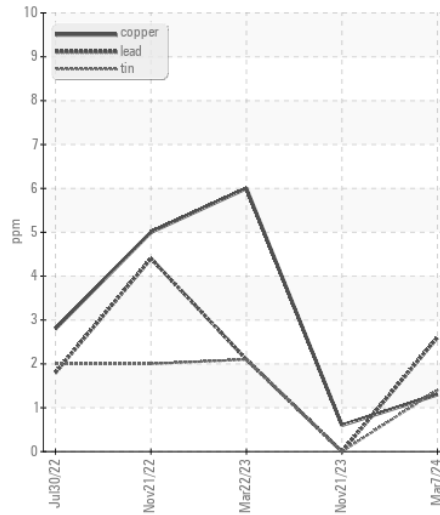
**Ferrous Alloys**



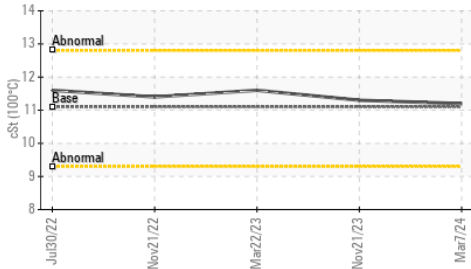
**Base Number**



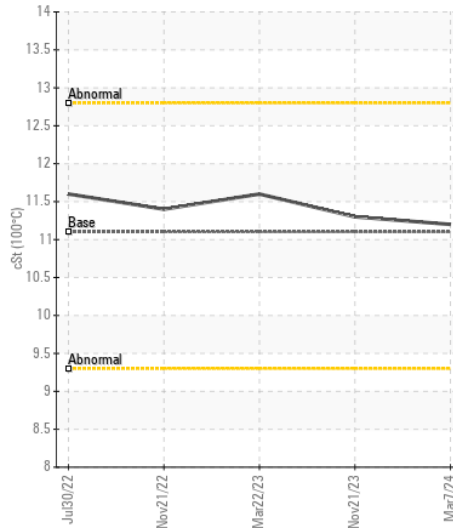
**Non-ferrous Metals**



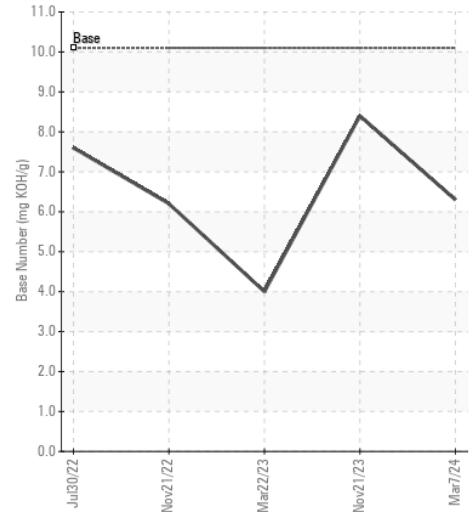
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : RPL0014277

**Lab Number** : 06149807

**Unique Number** : 10979885

**Test Package** : FLEET

**Received** : 16 Apr 2024

**Tested** : 17 Apr 2024

**Diagnosed** : 18 Apr 2024 - Don Baldrige

**RTL PACLEASE - 7001 - Houston**

6300 N. Loop East

Houston, TX

US 77026

Contact: RODNEY BRIGGS

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T:

F:

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)