



# OIL ANALYSIS REPORT

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

Machine Id  
**955-1381**  
 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>RPL0014657</b>	RPL0010070	RPL0005058
Sample Date		Client Info		<b>07 Nov 2023</b>	15 Jun 2023	02 Dec 2022
Machine Age	hrs	Client Info		<b>5290</b>	130075	118261
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>N/A</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>4</b>	47	22
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	13	8
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	4
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	2	5
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

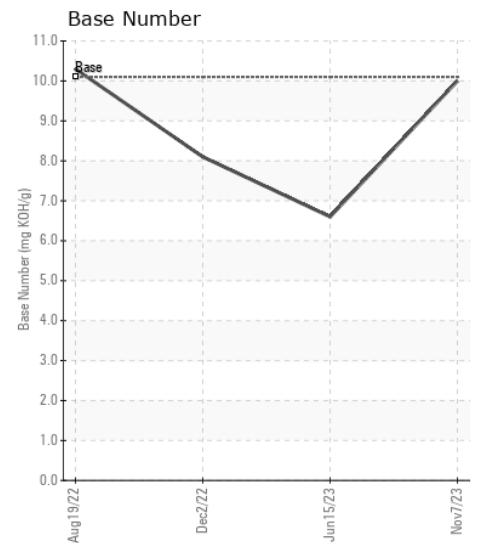
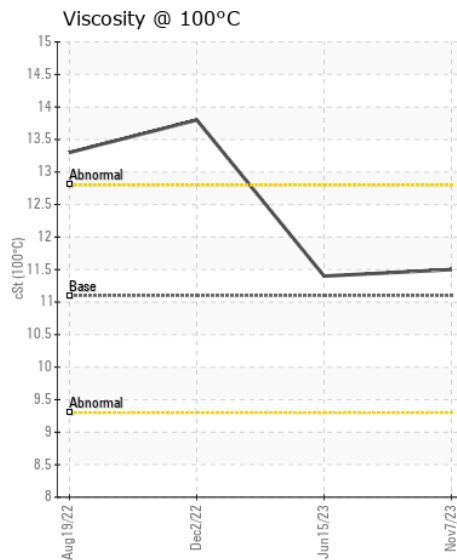
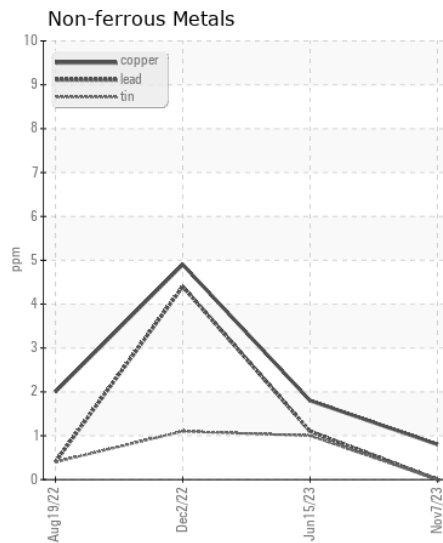
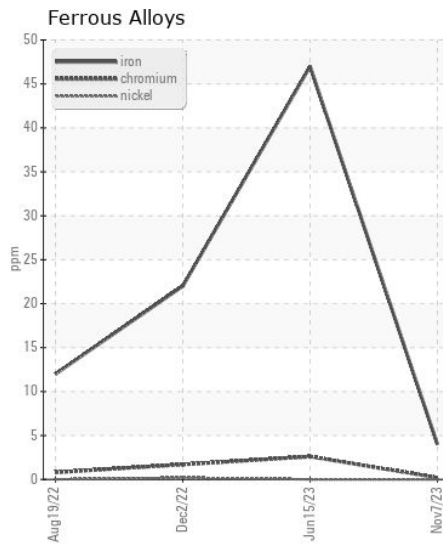
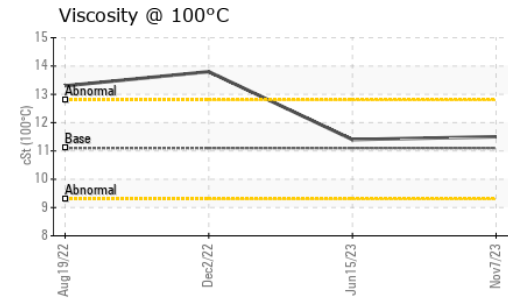
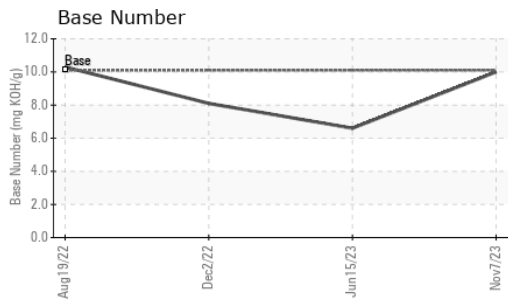
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	10	9
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	26	18
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>0.1</b>	1.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.5</b>	12.1	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.4</b>	25.3	25.9
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>	6	3
Boron	ppm	ASTM D5185m		<b>83</b>	32	28
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>39</b>	13	33
Manganese	ppm	ASTM D5185m		<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>529</b>	776	492
Calcium	ppm	ASTM D5185m		<b>1581</b>	1432	1754
Phosphorus	ppm	ASTM D5185m	1260	<b>759</b>	744	723
Zinc	ppm	ASTM D5185m	1400	<b>877</b>	884	1039
Sulfur	ppm	ASTM D5185m		<b>2515</b>	3561	2595
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	19.7	25.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>10.0</b>	6.6	8.1
Visc @ 100°C	cSt	ASTM D445	11.1	<b>11.5</b>	11.4	13.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0014657 **Received** : 10 Jan 2024  
**Lab Number** : 06056149 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822098 **Diagnostician** : Angela Borella  
**Test Package** : FLEET

**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: