



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**139196**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0019715</b>	RPL0014874	RPL0007820
Sample Date		Client Info		<b>10 Jun 2024</b>	01 Sep 2023	02 May 2023
Machine Age	mls	Client Info		<b>976322</b>	304095	0
Oil Age	mls	Client Info		<b>672227</b>	976322	0
Filter Age	mls	Client Info		<b>0</b>	976322	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>10</b>	16	46
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>10</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	4	9
Lead	ppm	ASTM D5185m	>150	<b>2</b>	15	▲ 67
Copper	ppm	ASTM D5185m	>90	<b>2</b>	3	4
Tin	ppm	ASTM D5185m	>5	<b>0</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	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.

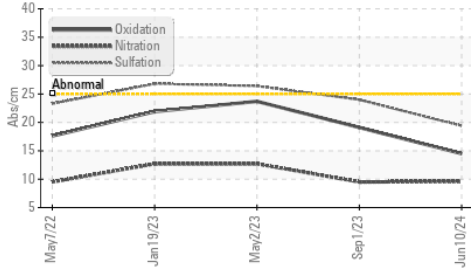
Silicon	ppm	ASTM D5185m	>35	<b>6</b>	9	12
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	11	10
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	<b>0.2</b>	0.3	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.6</b>	9.5	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.4</b>	24.0	26.4
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

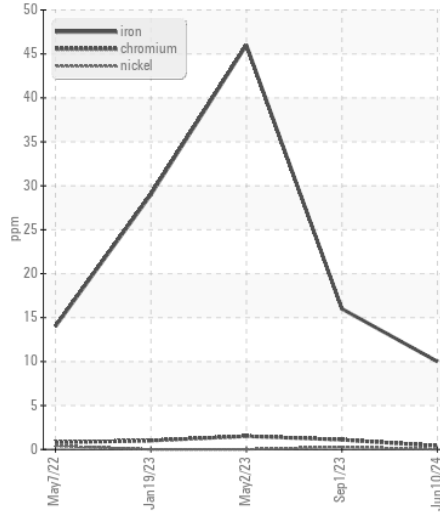
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	3
Boron	ppm	ASTM D5185m		<b>74</b>	192	36
Barium	ppm	ASTM D5185m		<b>0</b>	44	0
Molybdenum	ppm	ASTM D5185m		<b>36</b>	132	119
Manganese	ppm	ASTM D5185m		<b>0</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>741</b>	630	743
Calcium	ppm	ASTM D5185m		<b>1446</b>	1440	1665
Phosphorus	ppm	ASTM D5185m	1360	<b>737</b>	635	743
Zinc	ppm	ASTM D5185m	1480	<b>870</b>	817	969
Sulfur	ppm	ASTM D5185m		<b>2953</b>	2574	3141
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.5</b>	19.1	23.7
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	<b>7.4</b>	7.3	3.9
Visc @ 100°C	cSt	ASTM D445	15.1	<b>13.5</b>	13.5	13.6

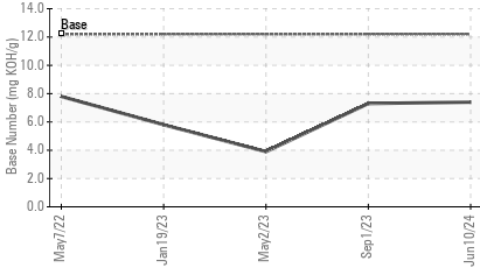
**FT-IR (Direct Trend)**



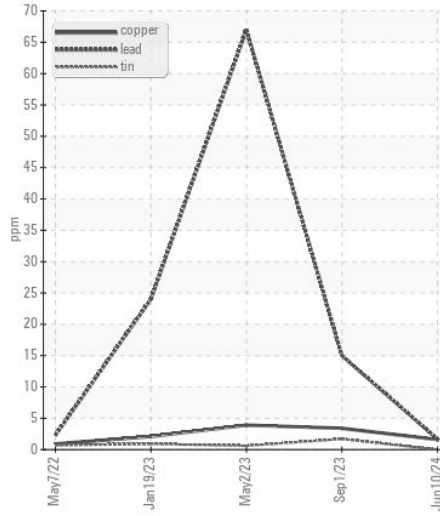
**Ferrous Alloys**



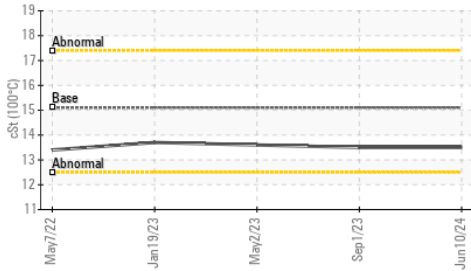
**Base Number**



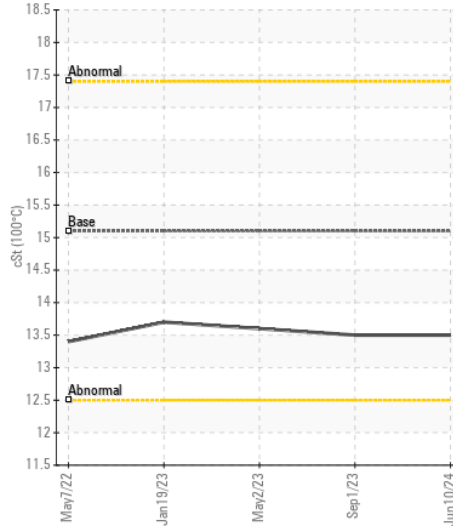
**Non-ferrous Metals**



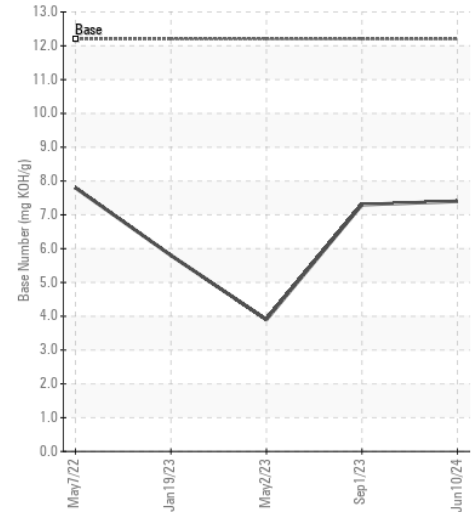
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019715 **Received** : 21 Jun 2024  
**Lab Number** : 06216585 **Tested** : 24 Jun 2024  
**Unique Number** : 11089449 **Diagnosed** : 24 Jun 2024 - Sean Felton  
**Test Package** : FLEET

**RTL PACLEASE - 7005 - Arlington**  
 1900 E Division  
 Arlington, TX  
 US 76011  
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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)