



# OIL ANALYSIS REPORT

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

Machine Id  
**139272**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (44 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0019618</b>	RPL0016701	RPL0016649
Sample Date		Client Info		<b>10 Jun 2024</b>	01 Apr 2024	19 Dec 2023
Machine Age	mls	Client Info		<b>583803</b>	561108	532472
Oil Age	mls	Client Info		<b>555167</b>	28636	44929
Filter Age	mls	Client Info		<b>0</b>	0	44929
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>76</b>	45	39
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	6	5
Lead	ppm	ASTM D5185m	>150	<b>16</b>	7	12
Copper	ppm	ASTM D5185m	>90	<b>3</b>	1	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

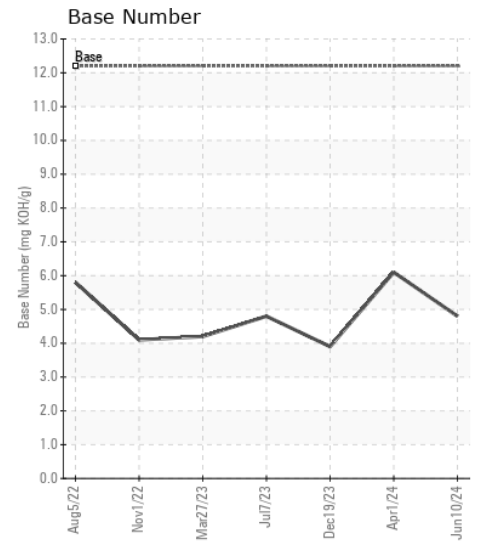
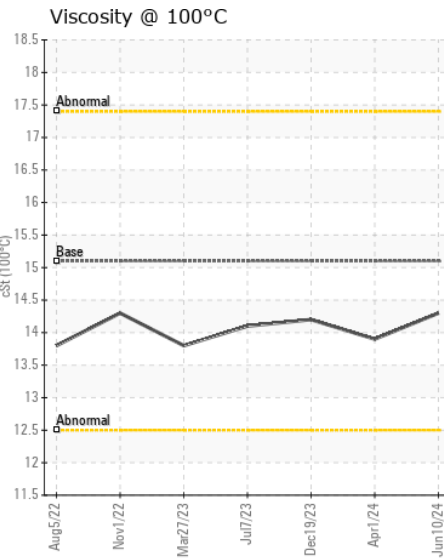
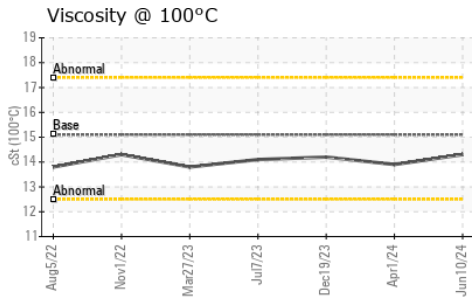
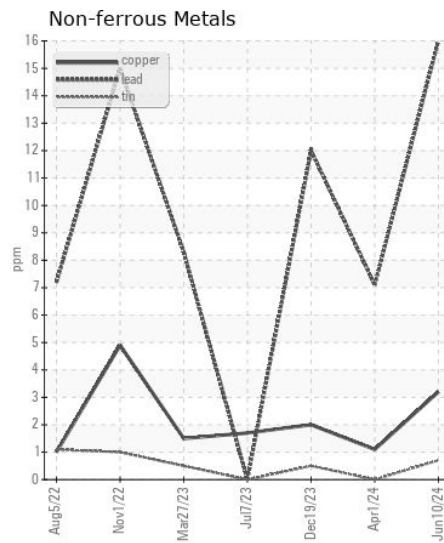
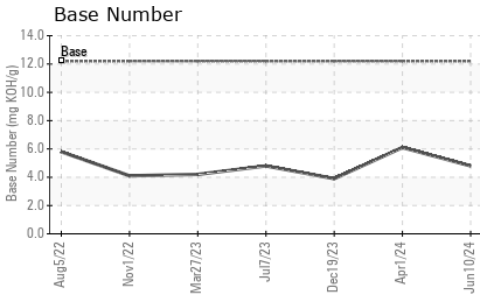
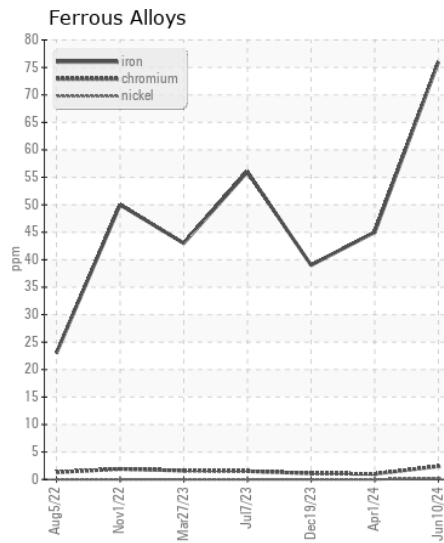
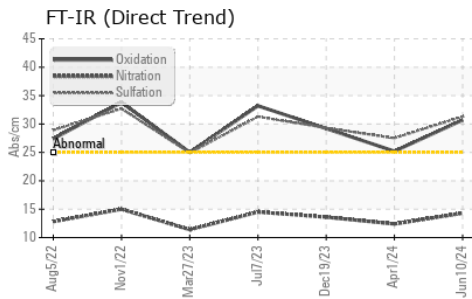
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>9</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	3	7
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>1.2</b>	0.8	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.3</b>	12.4	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>31.3</b>	27.5	29.3
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>0</b>	2	<1
Boron	ppm	ASTM D5185m		<b>47</b>	110	38
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>142</b>	123	108
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>776</b>	678	674
Calcium	ppm	ASTM D5185m		<b>1755</b>	1599	1260
Phosphorus	ppm	ASTM D5185m	1360	<b>823</b>	684	548
Zinc	ppm	ASTM D5185m	1480	<b>1004</b>	794	700
Sulfur	ppm	ASTM D5185m		<b>2661</b>	2737	1991
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>30.7</b>	25.2	29.2
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	<b>4.8</b>	6.1	3.9
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.3</b>	13.9	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019618  
**Lab Number** : 06216582  
**Unique Number** : 11089446  
**Test Package** : FLEET

**RTL PACLEASE - 7005 - Arlington**  
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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)