



# OIL ANALYSIS REPORT

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

Machine Id  
**139185**  
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>RPL0019729</b>	RPL0007760	RPL0007727
Sample Date		Client Info		<b>20 May 2024</b>	06 Jul 2023	20 Mar 2023
Machine Age	mls	Client Info		<b>179441</b>	179441	168739
Oil Age	mls	Client Info		<b>179441</b>	10702	22662
Filter Age	mls	Client Info		<b>0</b>	10702	22662
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>33</b>	16	37
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>8</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	12	13
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	6
Copper	ppm	ASTM D5185m	>330	<b>1</b>	0	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

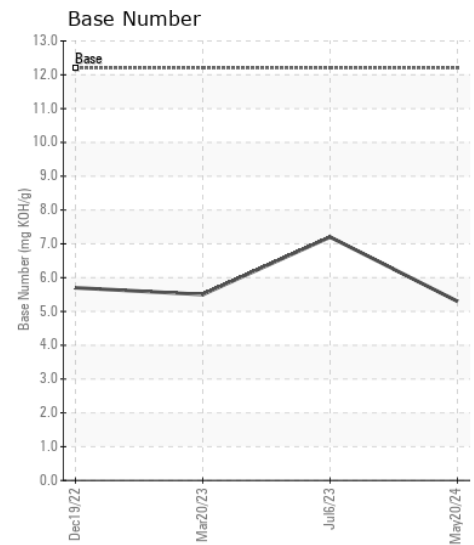
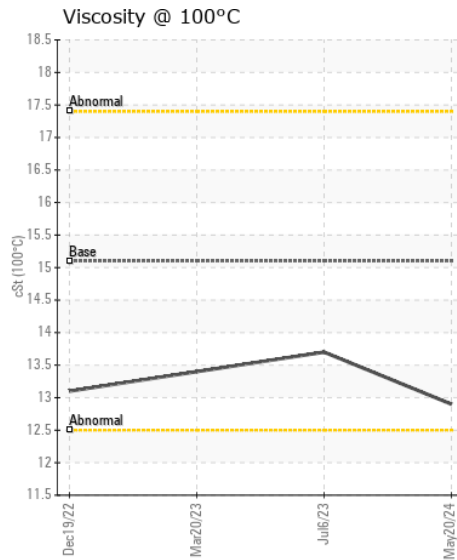
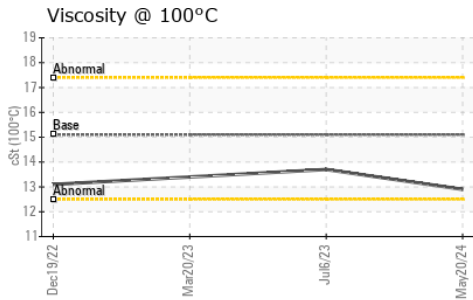
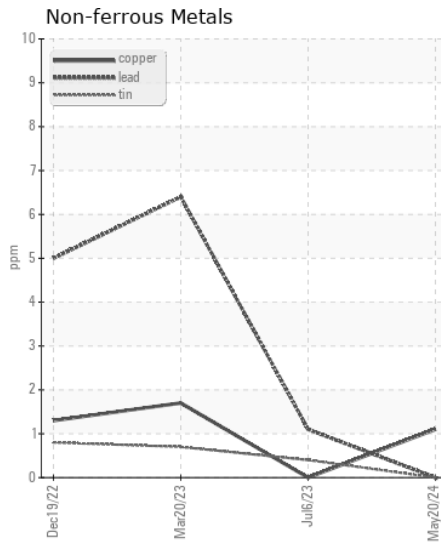
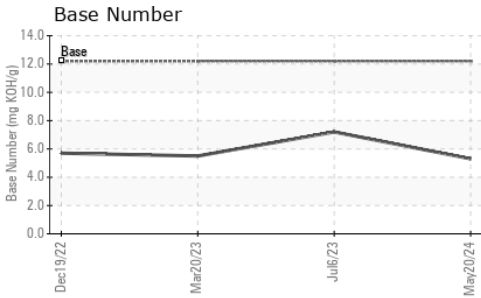
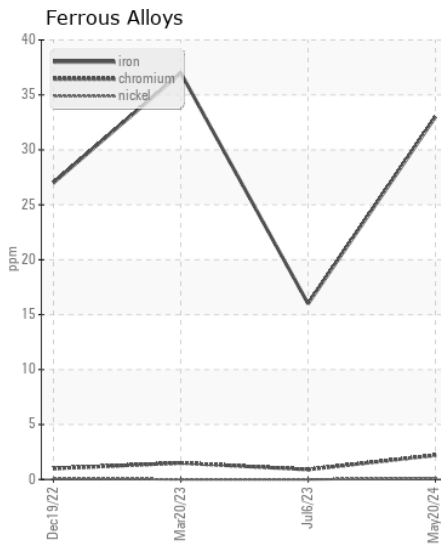
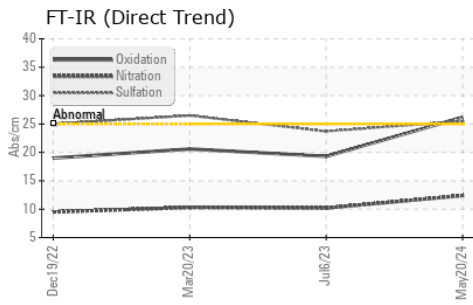
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>9</b>	6	9
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	31	32
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>0.4</b>	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.4</b>	10.2	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.5</b>	23.7	26.5
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	2
Boron	ppm	ASTM D5185m		<b>48</b>	126	49
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>52</b>	107	75
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>715</b>	654	486
Calcium	ppm	ASTM D5185m		<b>1451</b>	1398	1517
Phosphorus	ppm	ASTM D5185m	1360	<b>733</b>	768	960
Zinc	ppm	ASTM D5185m	1480	<b>864</b>	972	1059
Sulfur	ppm	ASTM D5185m		<b>2877</b>	3036	2886
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>26.2</b>	19.3	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	12.2	<b>5.3</b>	7.2	5.5
Visc @ 100°C	cSt	ASTM D445	15.1	<b>12.9</b>	13.7	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019729 **Received** : 21 Jun 2024  
**Lab Number** : 06216579 **Tested** : 24 Jun 2024  
**Unique Number** : 11089443 **Diagnosed** : 24 Jun 2024 - Sean Felton  
**Test Package** : FLEET

**RTL PACLEASE - 7005 - Arlington**  
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 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)