



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**139-263**  
 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>RPL0019686</b>	RPL0016784	RPL0016650
Sample Date		Client Info		<b>02 Jul 2024</b>	12 Apr 2024	19 Dec 2023
Machine Age	hrs	Client Info		<b>380945</b>	377793	40000
Oil Age	hrs	Client Info		<b>336458</b>	44487	375865
Filter Age	hrs	Client Info		<b>0</b>	0	375865
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>	MARGINAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>31</b>	19	12
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	5	4
Lead	ppm	ASTM D5185m	>150	<b>9</b>	3	2
Copper	ppm	ASTM D5185m	>90	<b>2</b>	0	<1
Tin	ppm	ASTM D5185m	>5	<b>1</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.

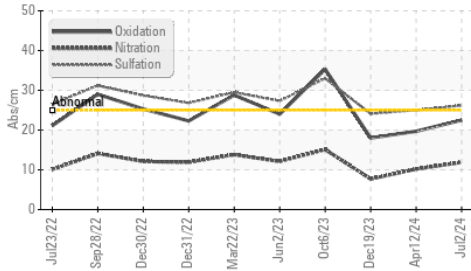
Silicon	ppm	ASTM D5185m	>35	<b>11</b>	9	7
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	4	9
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	▲ 4.2	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	<b>0.9</b>	0.7	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.9</b>	10.2	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.2</b>	25.0	24.1
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

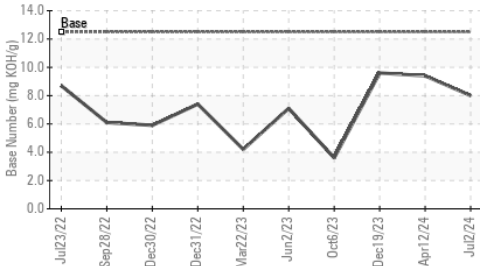
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	<1
Boron	ppm	ASTM D5185m	151	<b>189</b>	324	221
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	250	<b>125</b>	132	100
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	0	<b>645</b>	684	610
Calcium	ppm	ASTM D5185m	2046	<b>1493</b>	1520	1057
Phosphorus	ppm	ASTM D5185m	1043	<b>701</b>	709	531
Zinc	ppm	ASTM D5185m	943	<b>812</b>	812	606
Sulfur	ppm	ASTM D5185m	5012	<b>2836</b>	2689	1972
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.5</b>	19.7	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	<b>8.0</b>	9.4	9.6
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.1</b>	12.3	13.2

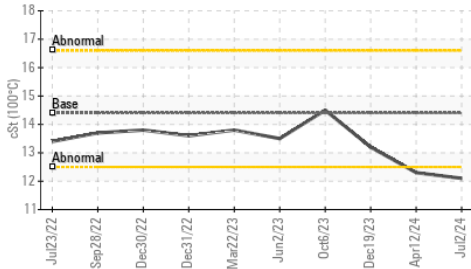
**FT-IR (Direct Trend)**



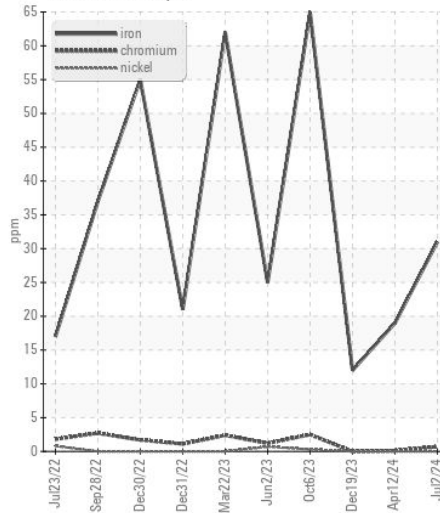
**Base Number**



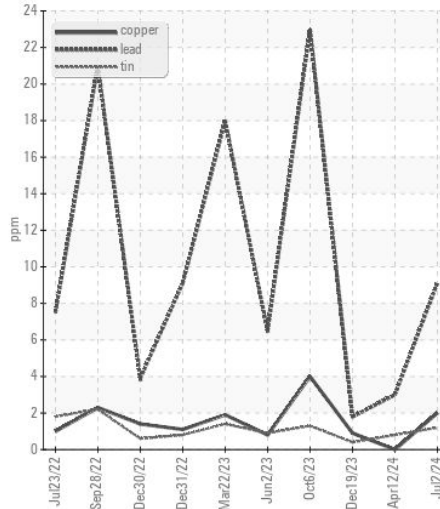
**Viscosity @ 100°C**



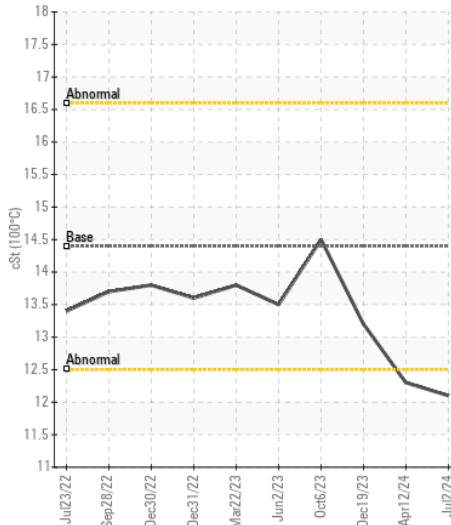
**Ferrous Alloys**



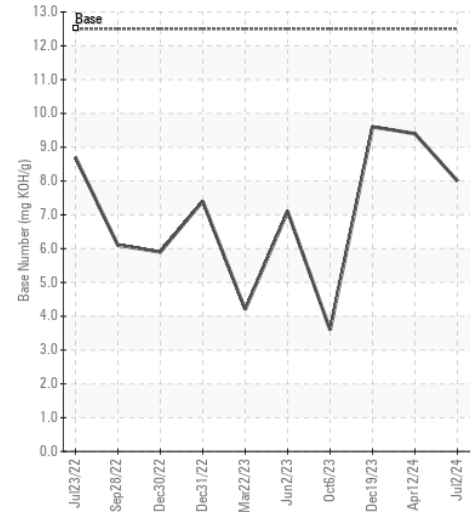
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

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

**Sample No.** : RPL00196886

**Lab Number** : 06231940

**Unique Number** : 11115433

**Test Package** : FLEET

**Received** : 10 Jul 2024

**Tested** : 10 Jul 2024

**Diagnosed** : 10 Jul 2024 - Wes Davis

**RTL PACLEASE - 7005 - Arlington**

1900 E Division

Arlington, TX

US 76011

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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)