



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PETERBILT TDI 1412**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON 15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0936247</b>	WC0936311	WC0903397
Sample Date		Client Info		<b>02 Jul 2024</b>	09 May 2024	22 Apr 2024
Machine Age	mls	Client Info		<b>506891</b>	501186	500855
Oil Age	mls	Client Info		<b>25000</b>	0	25000
Filter Age	mls	Client Info		<b>25000</b>	0	25000
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	SEVERE

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>9</b>	3	10
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	3	4
Lead	ppm	ASTM D5185m	>45	<b>2</b>	2	11
Copper	ppm	ASTM D5185m	>85	<b>5</b>	5	▲ 51
Tin	ppm	ASTM D5185m	>4	<b>0</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

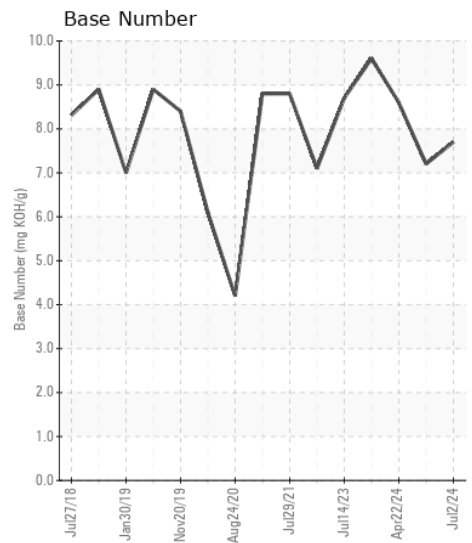
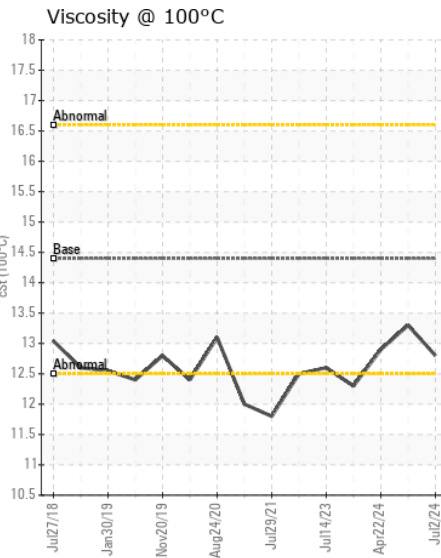
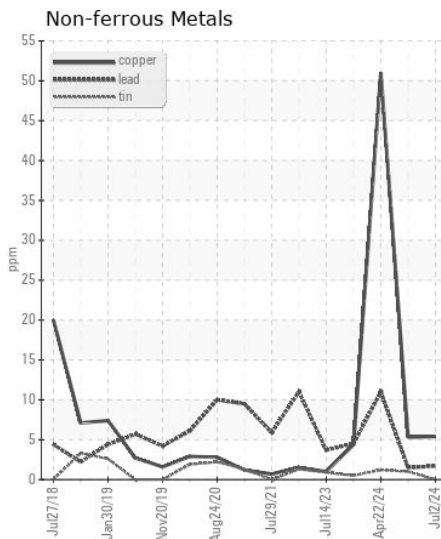
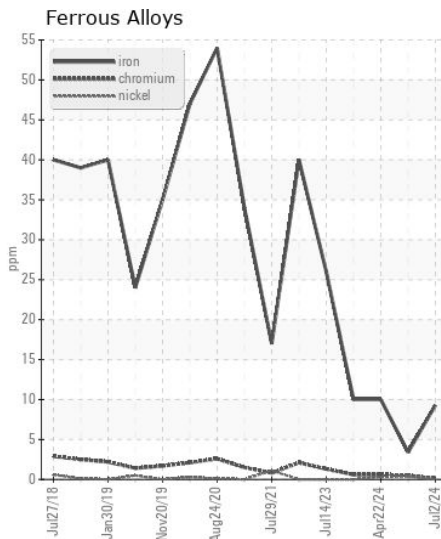
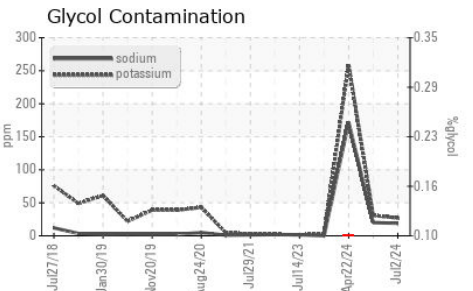
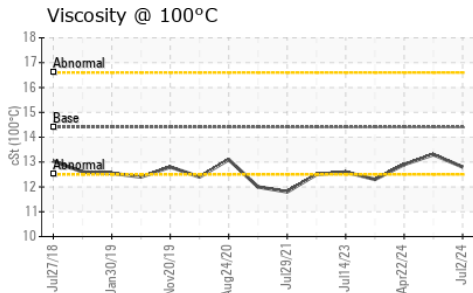
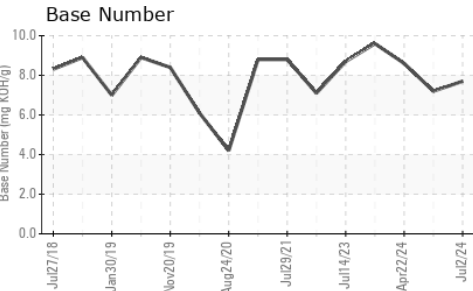
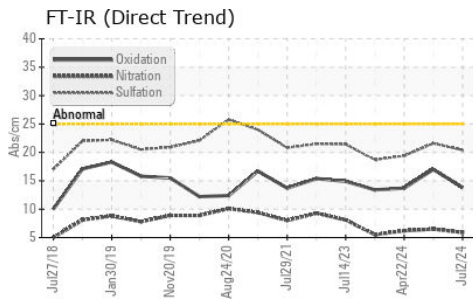
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>4</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>27</b>	31	▲ 259
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	▲ 0.10
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.9</b>	6.5	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	21.6	19.4
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	>50	<b>19</b>	20	▲ 172
Boron	ppm	ASTM D5185m		<b>317</b>	481	368
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>91</b>	92	122
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>458</b>	432	406
Calcium	ppm	ASTM D5185m		<b>1538</b>	1402	1697
Phosphorus	ppm	ASTM D5185m		<b>1056</b>	936	1207
Zinc	ppm	ASTM D5185m		<b>1255</b>	1204	1391
Sulfur	ppm	ASTM D5185m		<b>3752</b>	3452	3982
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.8</b>	17.0	13.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.7</b>	7.2	8.6
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.8</b>	13.3	12.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0936247  
**Lab Number** : 06231065  
**Unique Number** : 11114558  
**Test Package** : FLEET ( Additional Tests: Glycol )

**SALEM NATIONALEASE CORPORATION**  
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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)