



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 117293**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0009858</b>	RPL0003418	RPL0003427
Sample Date		Client Info		<b>23 Aug 2023</b>	15 Feb 2023	12 Feb 2023
Machine Age	hrs	Client Info		<b>264246</b>	264246	0
Oil Age	hrs	Client Info		<b>264246</b>	14414	0
Filter Age	hrs	Client Info		<b>0</b>	14414	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	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>15</b>	8	14
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	<1	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<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

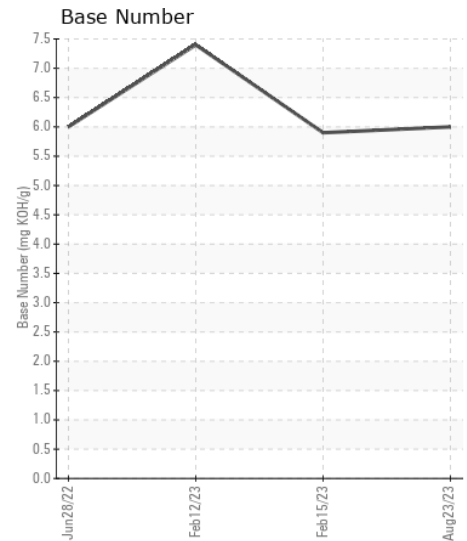
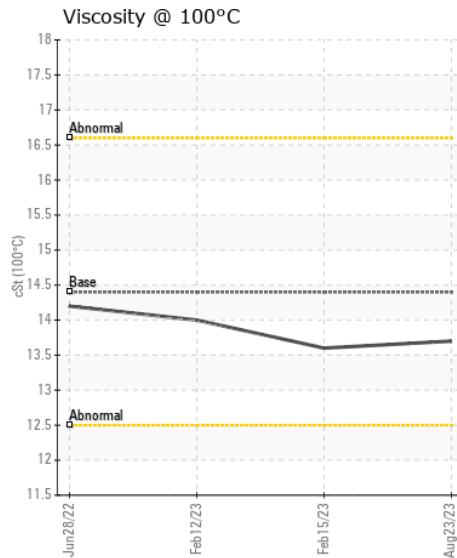
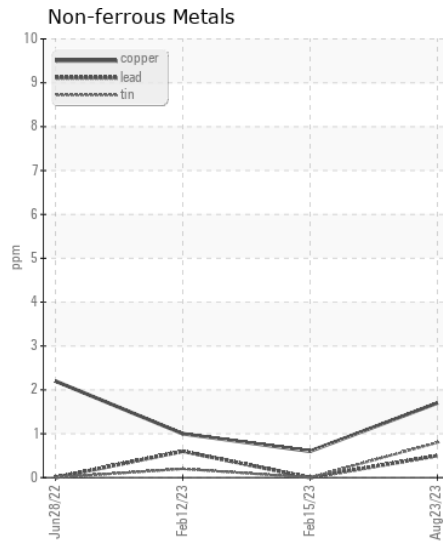
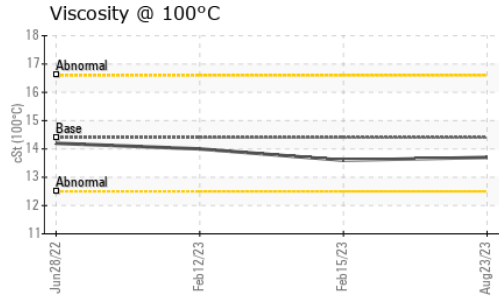
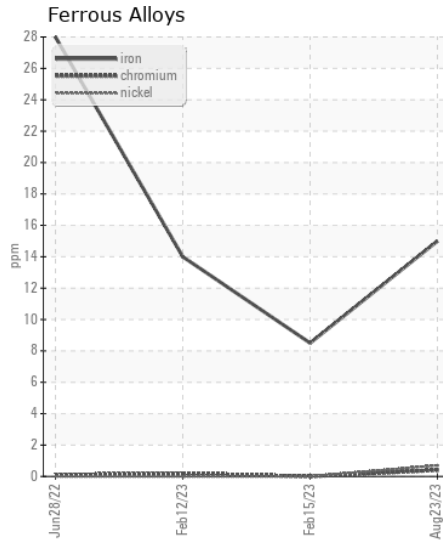
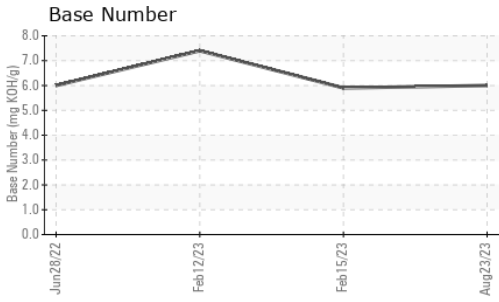
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>12</b>	9	9
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	5	5
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>0.5</b>	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	6.7	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.7</b>	19.0	20.7
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>&lt;1</b>	0	4
Boron	ppm	ASTM D5185m		<b>139</b>	350	323
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>84</b>	87	86
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>395</b>	353	391
Calcium	ppm	ASTM D5185m		<b>1390</b>	1368	1411
Phosphorus	ppm	ASTM D5185m		<b>925</b>	1007	1034
Zinc	ppm	ASTM D5185m		<b>1263</b>	1210	1257
Sulfur	ppm	ASTM D5185m		<b>3378</b>	3247	3907
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	13.7	14.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.0</b>	5.9	7.4
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.7</b>	13.6	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0009858 **Received** : 09 Jan 2024  
**Lab Number** : 06055248 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821197 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**RTL PACLEASE - 7019 - Birmingham**  
 601 Republic Circle  
 Birmingham, AL  
 US 35214  
 Contact: Johnathan King  
 KingJ1@RushEnterprises.com

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)

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