



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 8464166**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER 15W40 (19 QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0021094</b>	RPL0019368	RPL0017417
Sample Date		Client Info		<b>14 Jun 2024</b>	03 Apr 2024	04 Jan 2024
Machine Age	mls	Client Info		<b>351521</b>	349156	352902
Oil Age	mls	Client Info		<b>351521</b>	352902	40695
Filter Age	mls	Client Info		<b>0</b>	0	40695
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>MARGINAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>8</b>	24	39
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	4	5
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	1	0
Copper	ppm	ASTM D5185m	>85	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

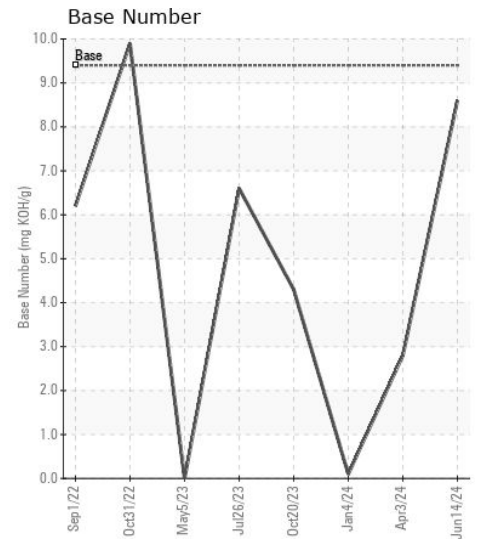
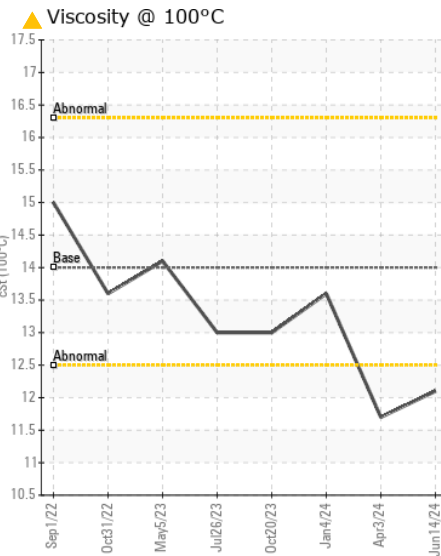
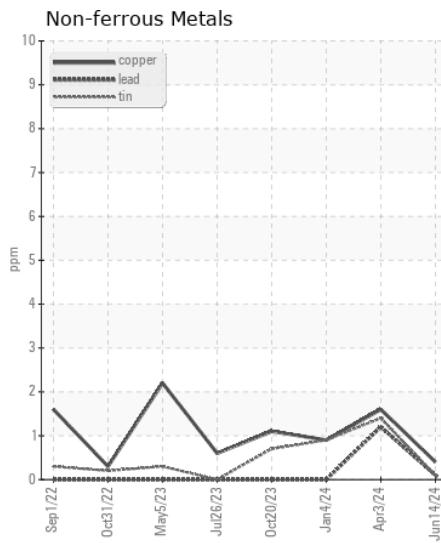
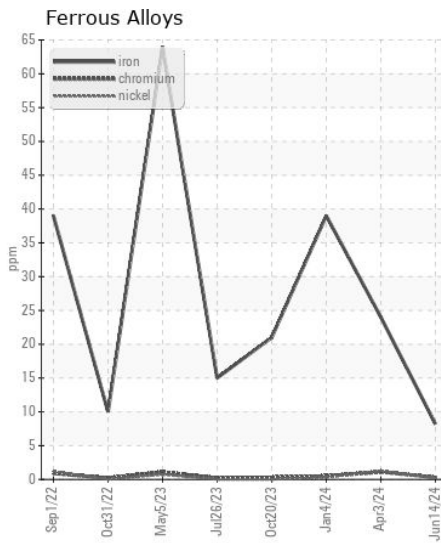
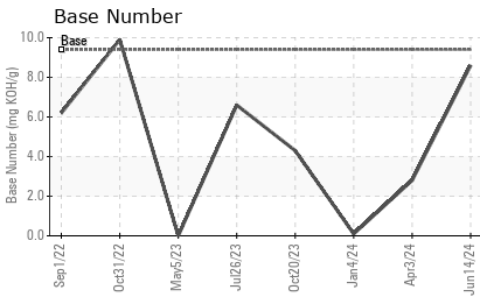
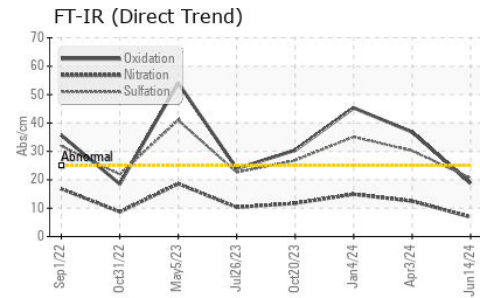
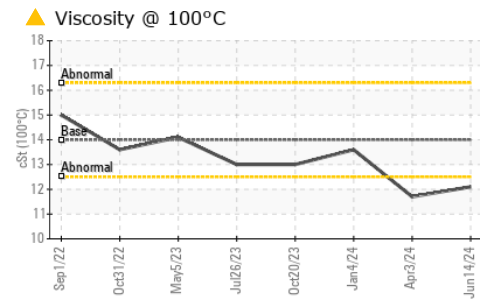
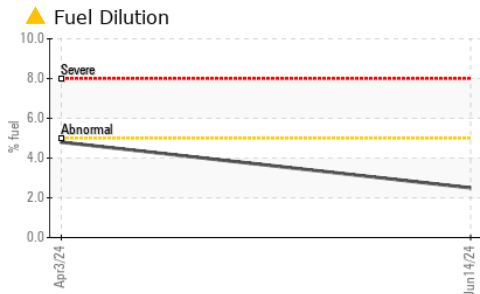
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185m	>30	<b>4</b>	6	5
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	5	3
Fuel	%	ASTM D3524	>5	<b>▲ 2.5</b>	<b>▲ 4.8</b>	<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>0.1</b>	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.9</b>	12.5	14.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.6</b>	30.2	35.1
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		<b>5</b>	2	0
Boron	ppm	ASTM D5185m	0	<b>2</b>	1	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>59</b>	65	63
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	0	<b>1008</b>	941	1019
Calcium	ppm	ASTM D5185m		<b>1095</b>	1130	1096
Phosphorus	ppm	ASTM D5185m		<b>1134</b>	1027	1030
Zinc	ppm	ASTM D5185m		<b>1341</b>	1215	1338
Sulfur	ppm	ASTM D5185m		<b>3773</b>	3216	2863
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.7</b>	36.8	45.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>8.6</b>	<b>▲ 2.8</b>	<b>▲ 0.1</b>
Visc @ 100°C	cSt	ASTM D445	14	<b>▲ 12.1</b>	<b>▲ 11.7</b>	13.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0021094 **Received** : 27 Jun 2024  
**Lab Number** : 06222230 **Tested** : 01 Jul 2024  
**Unique Number** : 11100427 **Diagnosed** : 01 Jul 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

**RTL PACLEASE - 7006 - Pico Rivera**  
 7837 Telegraph Rd  
 Pico Rivera, CA  
 US 90660  
 Contact: GERARDO CARROLA  
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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)

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