



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 846-5125**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1 5W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0019359</b>	RPL0015788	RPL0013449
Sample Date		Client Info		<b>10 Apr 2024</b>	16 Oct 2023	24 Jul 2023
Machine Age	mls	Client Info		<b>56960</b>	32418	42136
Oil Age	mls	Client Info		<b>11983</b>	32418	0
Filter Age	mls	Client Info		<b>11983</b>	32418	0
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	ATTENTION	ATTENTION

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>110	<b>25</b>	50	35
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	1	1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>11</b>	21	15
Lead	ppm	ASTM D5185m	>45	<b>2</b>	<1	<1
Copper	ppm	ASTM D5185m	>85	<b>9</b>	27	23
Tin	ppm	ASTM D5185m	>4	<b>2</b>	3	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

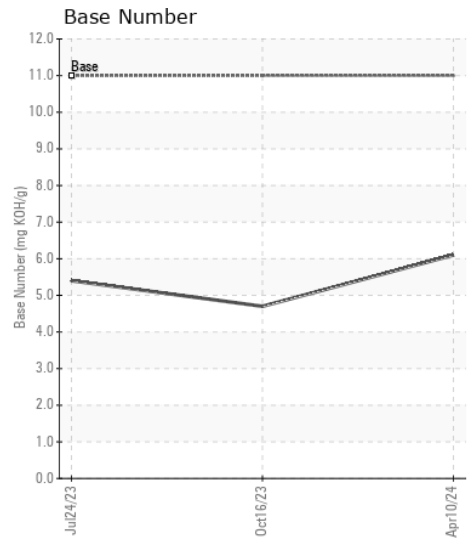
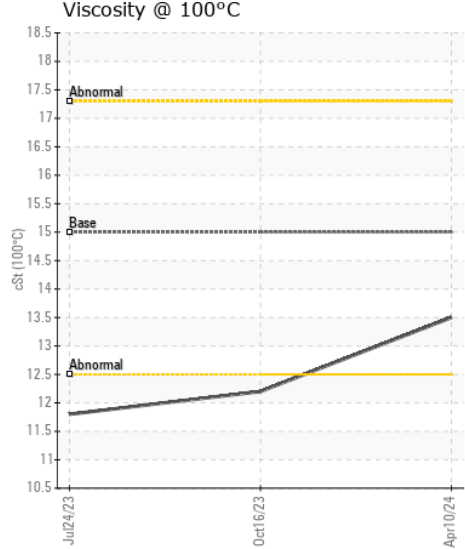
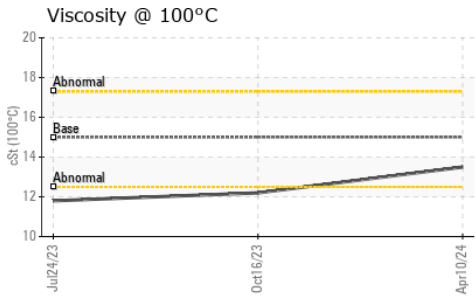
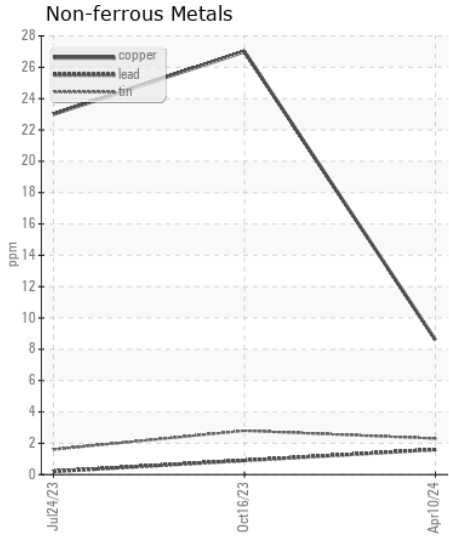
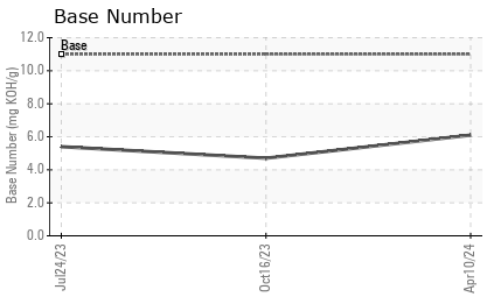
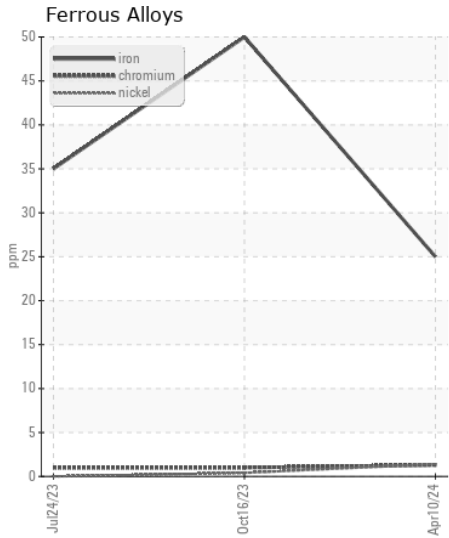
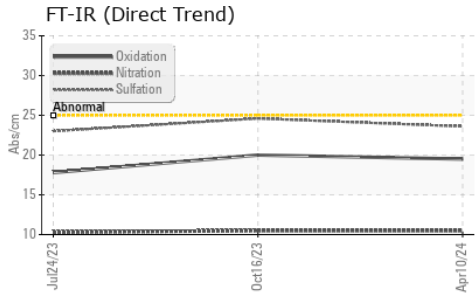
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>10</b>	13	12
Potassium	ppm	ASTM D5185m	>20	<b>35</b>	72	58
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	0.7
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	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.5</b>	10.5	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.6</b>	24.6	23.0
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>	3	2
Boron	ppm	ASTM D5185m	291	<b>4</b>	14	20
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	3
Molybdenum	ppm	ASTM D5185m	8.0	<b>62</b>	22	10
Manganese	ppm	ASTM D5185m		<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m	624	<b>953</b>	963	790
Calcium	ppm	ASTM D5185m	2158	<b>1163</b>	1504	1403
Phosphorus	ppm	ASTM D5185m	1132	<b>1084</b>	1034	796
Zinc	ppm	ASTM D5185m	1300	<b>1237</b>	1151	934
Sulfur	ppm	ASTM D5185m	3616	<b>3267</b>	3996	2871
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.5</b>	20.0	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>6.1</b>	4.7	5.4
Visc @ 100°C	cSt	ASTM D445	15.0	<b>13.5</b>	12.2	11.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019359 **Received** : 18 Apr 2024  
**Lab Number** : 06152929 **Tested** : 19 Apr 2024  
**Unique Number** : 10983007 **Diagnosed** : 19 Apr 2024 - Wes Davis  
**Test Package** : FLEET

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