



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**PETERBILT 846-4436**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (28 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>RPL0020451</b>	RPL0017908	RPL0016375
Sample Date		Client Info		<b>02 May 2024</b>	20 Feb 2024	13 Nov 2023
Machine Age	mls	Client Info		<b>159704</b>	153069	144321
Oil Age	mls	Client Info		<b>6635</b>	8748	7819
Filter Age	mls	Client Info		<b>6635</b>	8748	7819
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>ATTENTION</b>	ABNORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>12</b>	20	8
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	4	<1
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	0	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>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

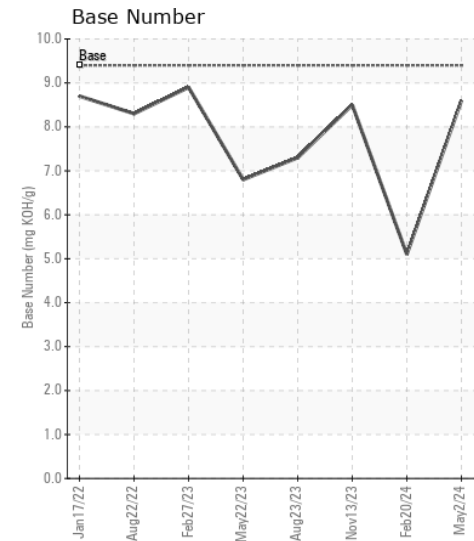
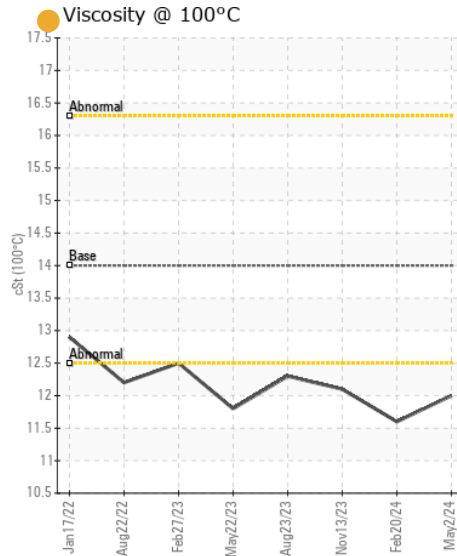
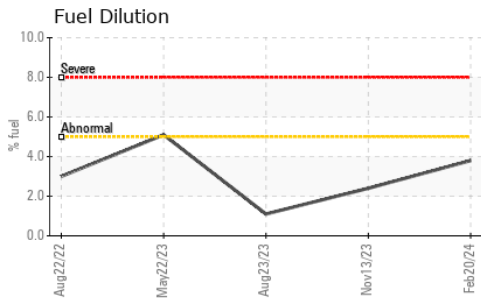
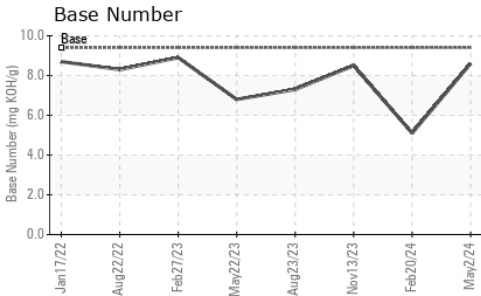
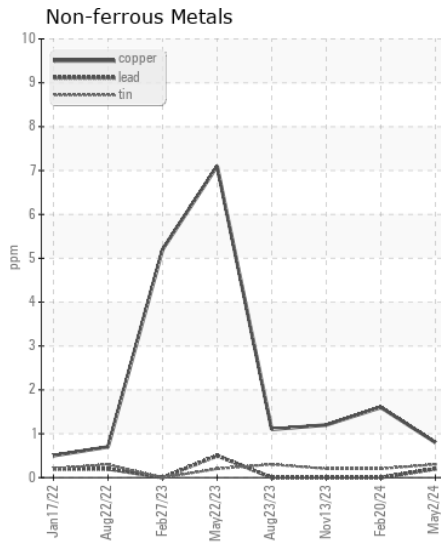
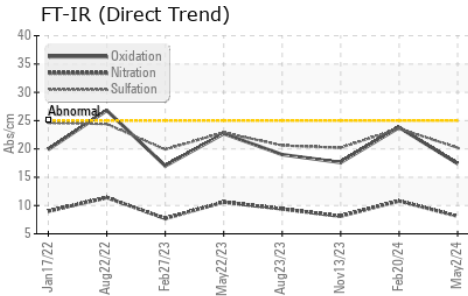
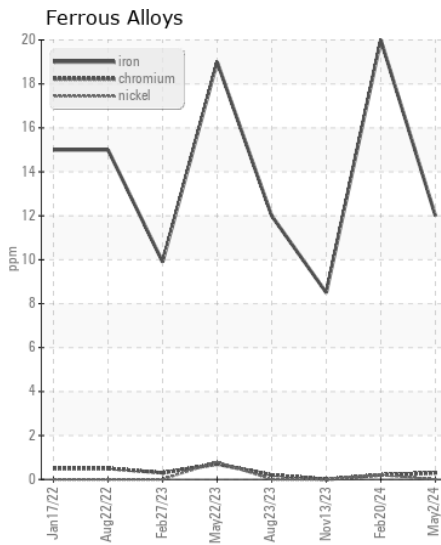
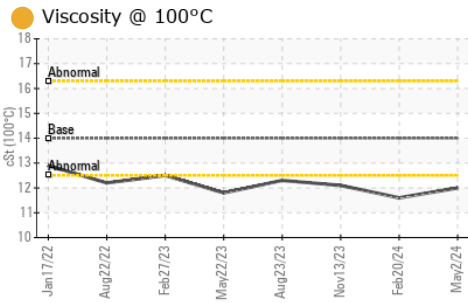
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>4</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	<1
Fuel	%	ASTM D3524	>5	<b>&lt;1.0</b>	▲ 3.8	▲ 2.4
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	10.8	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.2</b>	23.6	20.2
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. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>61</b>	59	56
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	0	<b>958</b>	● 973	● 954
Calcium	ppm	ASTM D5185m		<b>1105</b>	● 1028	● 1068
Phosphorus	ppm	ASTM D5185m		<b>1181</b>	● 1076	● 1090
Zinc	ppm	ASTM D5185m		<b>1250</b>	● 1304	1224
Sulfur	ppm	ASTM D5185m		<b>3543</b>	3207	3004
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.4</b>	23.8	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>8.6</b>	5.1	8.5
Visc @ 100°C	cSt	ASTM D445	14	● <b>12.0</b>	▲ 11.6	12.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0020451 **Received** : 21 May 2024  
**Lab Number** : 06185862 **Tested** : 23 May 2024  
**Unique Number** : 11042614 **Diagnosed** : 23 May 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**RTL PACLEASE - 7006 - Pico Rivera**  
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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)