



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 846-5055**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1 5W40 (44 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0020364</b>	RPL0017586	RPL0015522
Sample Date		Client Info		<b>02 May 2024</b>	26 Jan 2024	11 Oct 2023
Machine Age	mls	Client Info		<b>28868</b>	23703	16617
Oil Age	mls	Client Info		<b>5165</b>	23703	16617
Filter Age	mls	Client Info		<b>0</b>	23703	16617
Oil Changed		Client Info		<b>N/A</b>	Changed	Filtered
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>8</b>	36	28
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>6</b>	11	9
Lead	ppm	ASTM D5185m	>45	<b>1</b>	9	6
Copper	ppm	ASTM D5185m	>85	<b>6</b>	34	30
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	3	2
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.

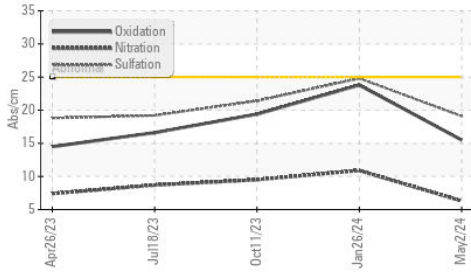
Silicon	ppm	ASTM D5185m	>30	<b>9</b>	37	39
Potassium	ppm	ASTM D5185m	>20	<b>29</b>	▲ 65	▲ 49
Fuel	%	ASTM D3524	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.3</b>	10.9	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.1</b>	24.8	21.4
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

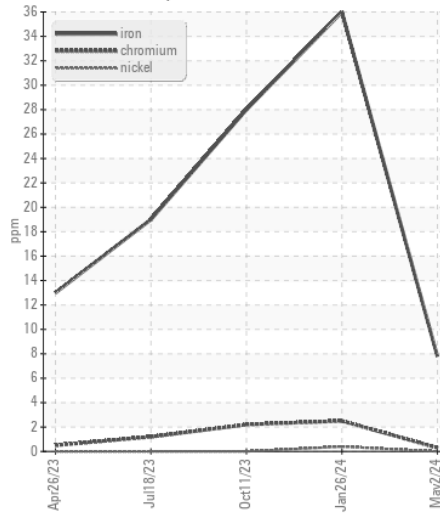
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	4
Boron	ppm	ASTM D5185m	291	<b>7</b>	28	41
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	5	3
Molybdenum	ppm	ASTM D5185m	8.0	<b>55</b>	13	12
Manganese	ppm	ASTM D5185m		<b>1</b>	6	5
Magnesium	ppm	ASTM D5185m	624	<b>929</b>	686	746
Calcium	ppm	ASTM D5185m	2158	<b>1086</b>	1246	1328
Phosphorus	ppm	ASTM D5185m	1132	<b>1014</b>	698	659
Zinc	ppm	ASTM D5185m	1300	<b>1208</b>	781	846
Sulfur	ppm	ASTM D5185m	3616	<b>3691</b>	3204	2922
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	23.8	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>8.8</b>	4.2	5.3
Visc @ 100°C	cSt	ASTM D445	15.0	<b>12.2</b>	● 10.8	● 10.8

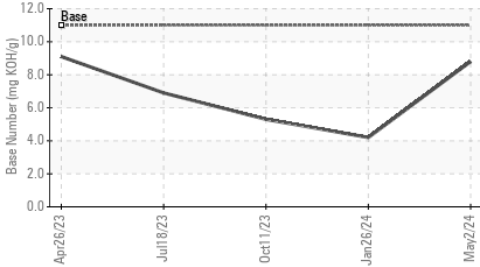
**FT-IR (Direct Trend)**



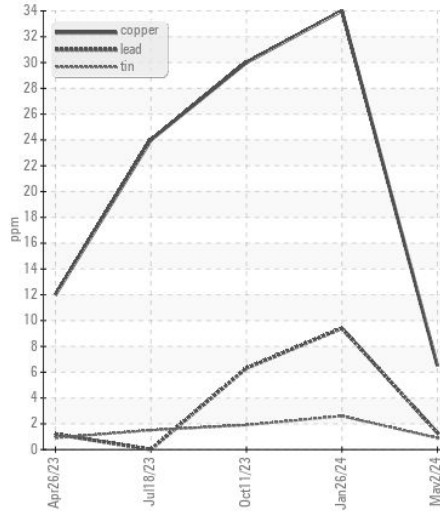
**Ferrous Alloys**



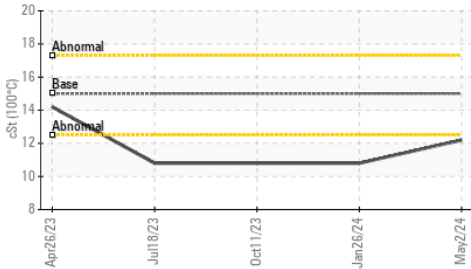
**Base Number**



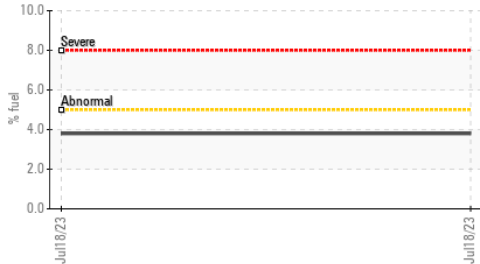
**Non-ferrous Metals**



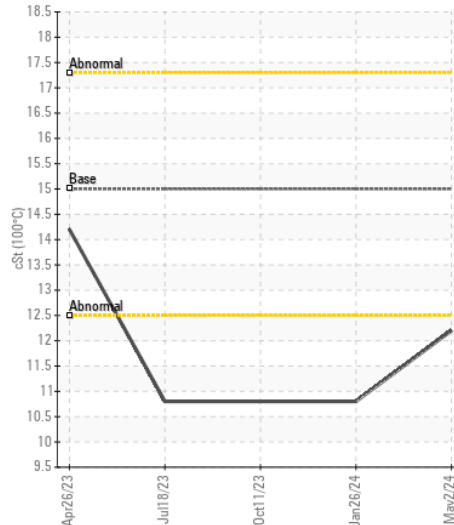
**Viscosity @ 100°C**



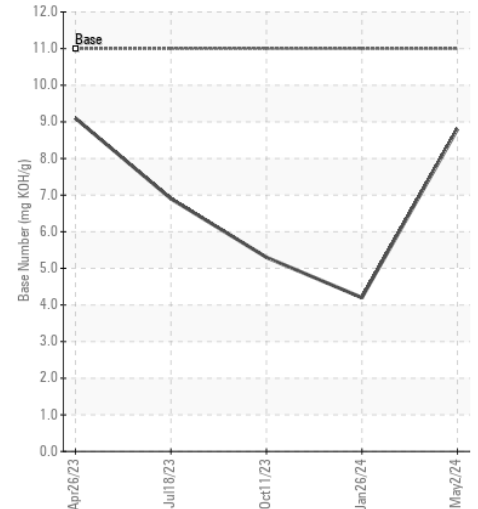
**Fuel Dilution**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0020364  
**Lab Number** : 06185810  
**Unique Number** : 11042562  
**Test Package** : FLEET ( Additional Tests: FuelDilution )

**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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F: