



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 846-4597**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0019407</b>	RPL0016850	RPL0015570
Sample Date		Client Info		<b>27 Mar 2024</b>	19 Dec 2023	19 Sep 2023
Machine Age	mls	Client Info		<b>56524</b>	53571	50510
Oil Age	mls	Client Info		<b>9408</b>	6455	3394
Filter Age	mls	Client Info		<b>9408</b>	6455	3394
Oil Changed		Client Info		<b>Filtered</b>	Not Changd	N/A
Filter Changed		Client Info		<b>Changed</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>110	<b>14</b>	6	6
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	4	<1
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>85	<b>7</b>	4	3
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
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.

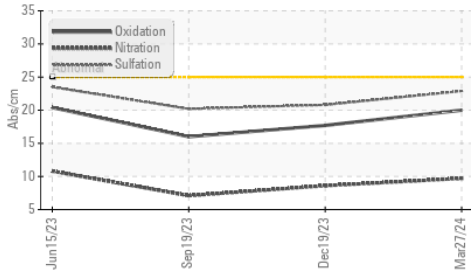
Silicon	ppm	ASTM D5185m	>30	<b>6</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	8.6	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.9</b>	20.8	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

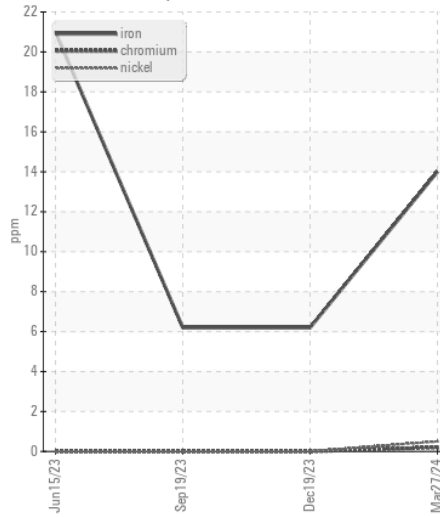
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	3
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	4	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>61</b>	59	59
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	0	<b>992</b>	966	1037
Calcium	ppm	ASTM D5185m		<b>1149</b>	1071	1204
Phosphorus	ppm	ASTM D5185m		<b>1048</b>	1103	1121
Zinc	ppm	ASTM D5185m		<b>1281</b>	1262	1387
Sulfur	ppm	ASTM D5185m		<b>3634</b>	3086	4372
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.0</b>	17.7	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>6.8</b>	8.0	9.1
Visc @ 100°C	cSt	ASTM D445	14	<b>13.3</b>	13.3	13.5

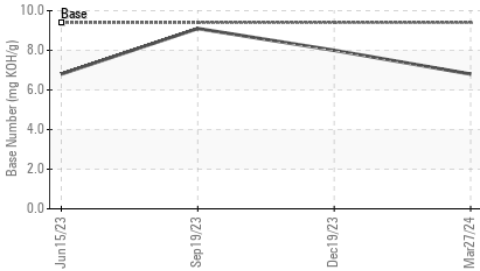
FT-IR (Direct Trend)



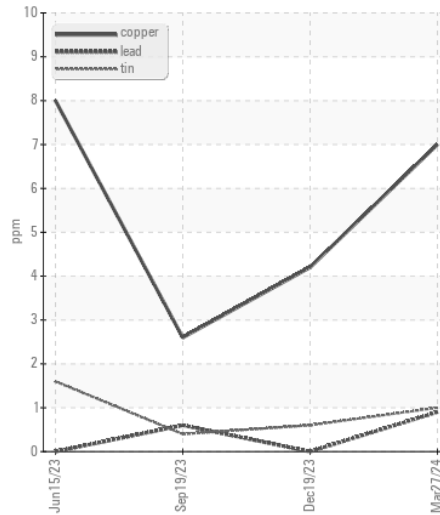
Ferrous Alloys



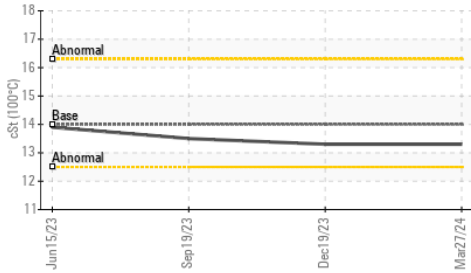
Base Number



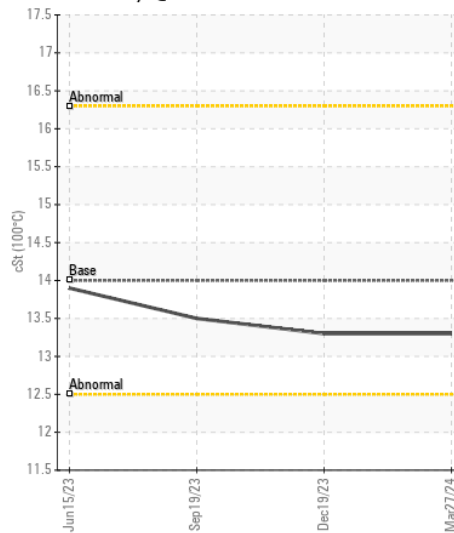
Non-ferrous Metals



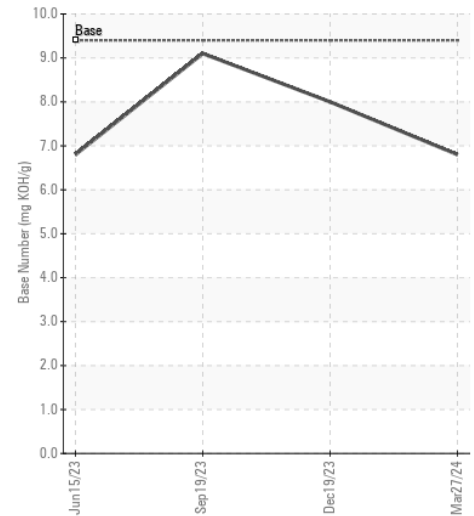
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : RPL0019407  
 Lab Number : 06145616  
 Unique Number : 10970424  
 Test Package : FLEET

Received : 11 Apr 2024  
 Tested : 12 Apr 2024  
 Diagnosed : 12 Apr 2024 - Wes Davis

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: