



# OIL ANALYSIS REPORT

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

Machine Id  
**PACCAR 846-4166**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

## RECOMMENDATION

We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0019368</b>	RPL0017417	RPL0015813
Sample Date		Client Info		<b>03 Apr 2024</b>	04 Jan 2024	20 Oct 2023
Machine Age	mls	Client Info		<b>349156</b>	352902	324426
Oil Age	mls	Client Info		<b>352902</b>	40695	12219
Filter Age	mls	Client Info		<b>0</b>	40695	12219
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>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>24</b>	39	21
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	5	1
Lead	ppm	ASTM D5185m	>40	<b>1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

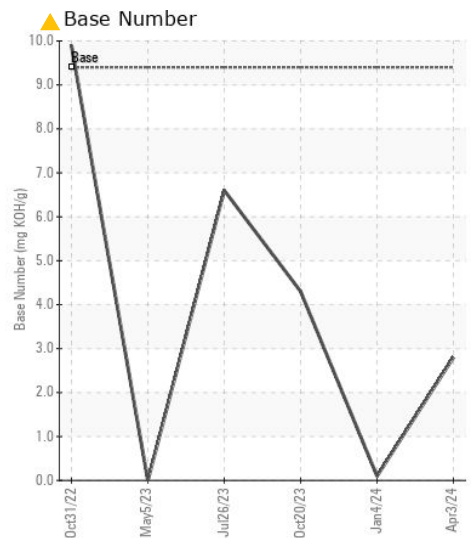
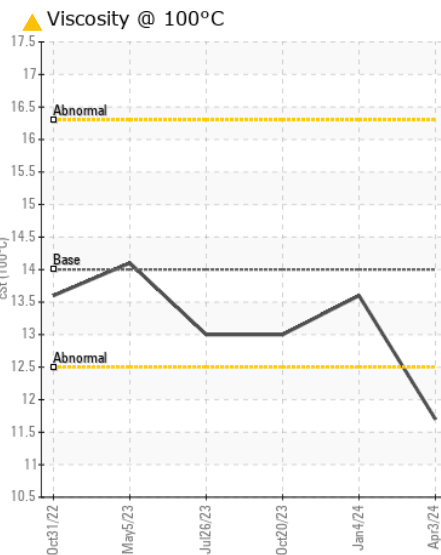
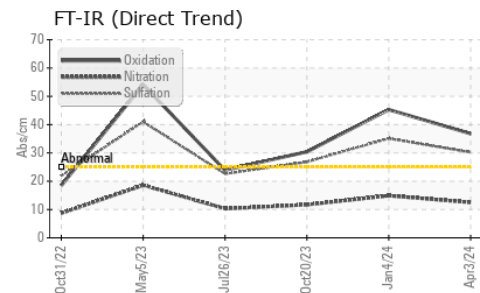
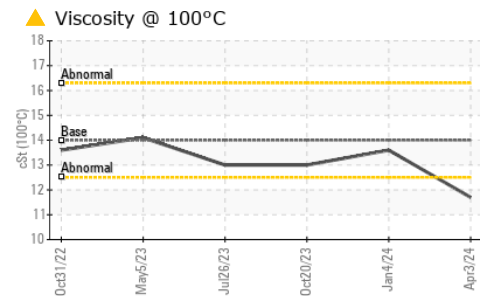
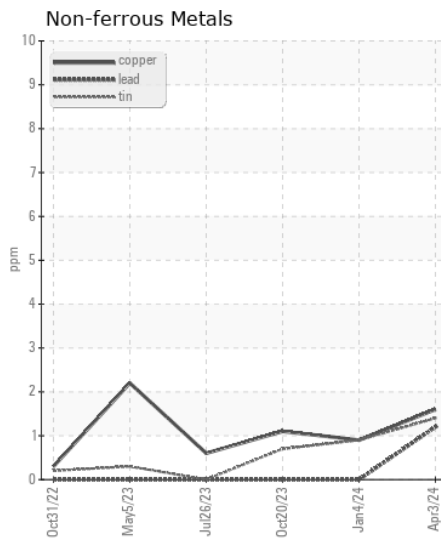
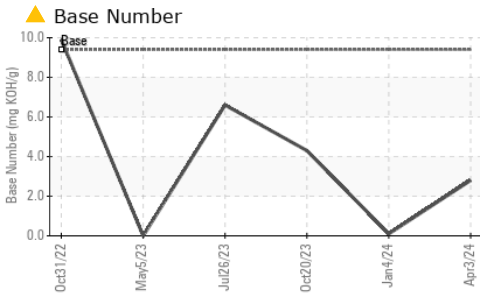
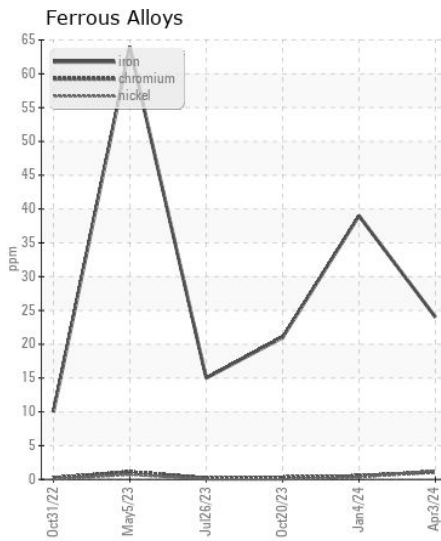
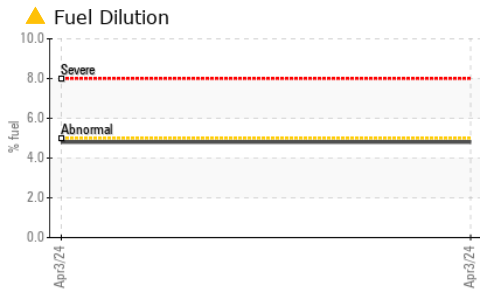
There is a moderate amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	3	4
Fuel	%	ASTM D3524	>5	<b>▲ 4.8</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>0.2</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.5</b>	14.9	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>30.2</b>	35.1	26.8
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

Fuel is present in the oil and is lowering the viscosity. The BN level is low.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	4
Boron	ppm	ASTM D5185m	0	<b>1</b>	0	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	19
Molybdenum	ppm	ASTM D5185m	0	<b>65</b>	63	59
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>941</b>	1019	842
Calcium	ppm	ASTM D5185m		<b>1130</b>	1096	940
Phosphorus	ppm	ASTM D5185m		<b>1027</b>	1030	829
Zinc	ppm	ASTM D5185m		<b>1215</b>	1338	1069
Sulfur	ppm	ASTM D5185m		<b>3216</b>	2863	3508
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>36.8</b>	45.3	30.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>▲ 2.8</b>	▲ 0.1	4.3
Visc @ 100°C	cSt	ASTM D445	14	<b>▲ 11.7</b>	13.6	13.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019368  
**Lab Number** : 06152922  
**Unique Number** : 10983000  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**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: