



PacLease

# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 857-4802**  
 Component  
**1 Diesel Engine**  
 Fluid  
**MOBIL 15W40 (44 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

## 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.

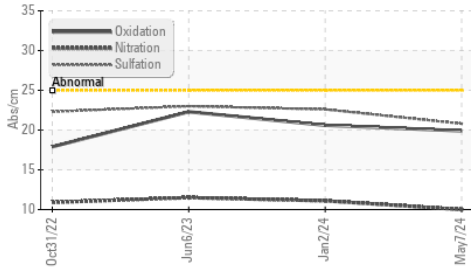
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0011794</b>	RPL0011732	RPL0011623
Sample Date		Client Info		<b>07 May 2024</b>	02 Jan 2024	06 Jun 2023
Machine Age	mls	Client Info		<b>97701</b>	77512	0
Oil Age	mls	Client Info		<b>20189</b>	12349	0
Filter Age	mls	Client Info		<b>20189</b>	12349	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	ATTENTION	ATTENTION

Iron	ppm	ASTM D5185m	>165	<b>15</b>	29	44
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	2	3
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	30	31
Lead	ppm	ASTM D5185m	>150	<b>2</b>	2	2
Copper	ppm	ASTM D5185m	>90	<b>&lt;1</b>	2	7
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

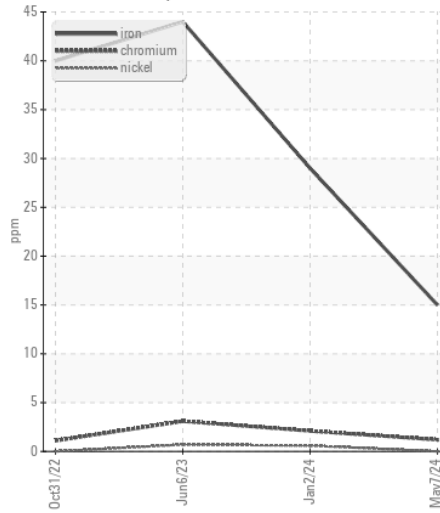
Silicon	ppm	ASTM D5185m	>35	<b>7</b>	10	16
Potassium	ppm	ASTM D5185m	>20	<b>17</b>	77	82
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	<b>0.4</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.0</b>	11.1	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.8</b>	22.6	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

Sodium	ppm	ASTM D5185m	>118	<b>2</b>	0	4
Boron	ppm	ASTM D5185m		<b>51</b>	23	30
Barium	ppm	ASTM D5185m		<b>0</b>	10	0
Molybdenum	ppm	ASTM D5185m		<b>83</b>	106	53
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>606</b>	581	544
Calcium	ppm	ASTM D5185m		<b>1566</b>	1292	1685
Phosphorus	ppm	ASTM D5185m		<b>806</b>	775	742
Zinc	ppm	ASTM D5185m		<b>933</b>	838	881
Sulfur	ppm	ASTM D5185m		<b>3293</b>	3258	2604
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.9</b>	20.6	22.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.5</b>	4.9	7.0
Visc @ 100°C	cSt	ASTM D445		<b>12.9</b>	12.5	12.3

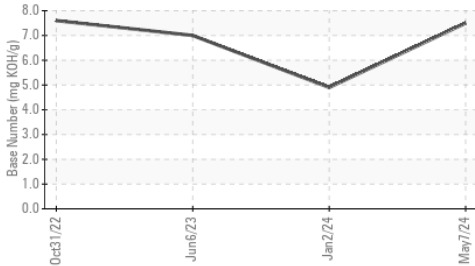
**FT-IR (Direct Trend)**



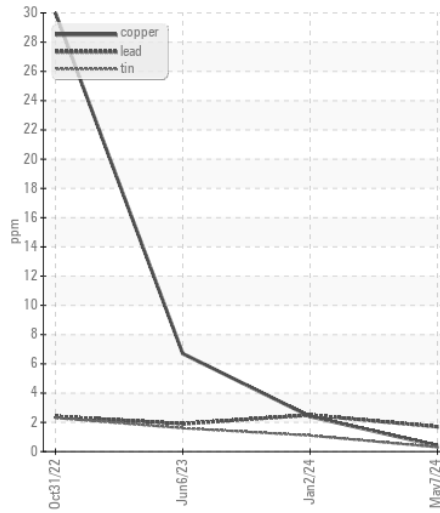
**Ferrous Alloys**



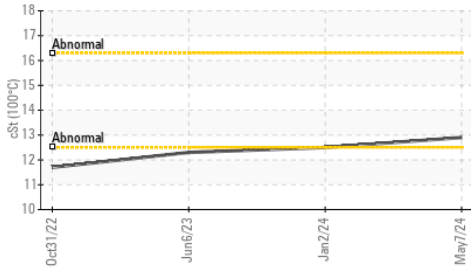
**Base Number**



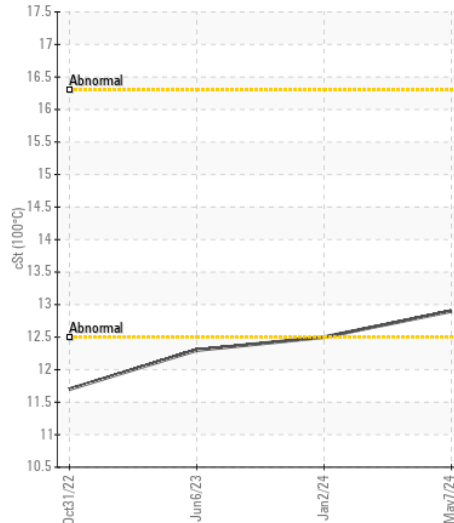
**Non-ferrous Metals**



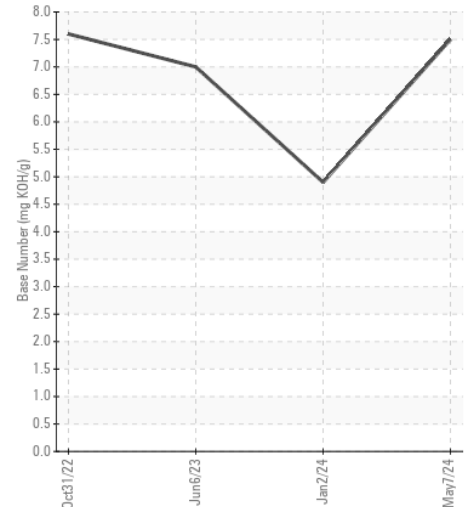
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0011794  
**Lab Number** : 06176902  
**Unique Number** : 11022955  
**Test Package** : FLEET

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 14 May 2024 - Wes Davis

**RTL PACLEASE - 7018 - West Texas**  
 1230 South Grandview  
 Odessa, TX  
 US 79761

Contact: David Johnson  
 JohnsonD@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: