



WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**

# OIL ANALYSIS REPORT

Area

[44637390]

Machine Id

PETERBILT 9571613

Component

Diesel Engine

Fluid

MOBIL DELVAC MX 15W40 (40 QTS)

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0016494</b>	RPL0012088	---
Sample Date		Client Info		<b>20 May 2024</b>	04 Apr 2023	---
Machine Age	mls	Client Info		<b>255332</b>	180733	---
Oil Age	mls	Client Info		<b>34429</b>	14465	---
Filter Age	mls	Client Info		<b>34429</b>	14465	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>31</b>	18	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>13</b>	4	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

There is no indication of any contamination in the oil.

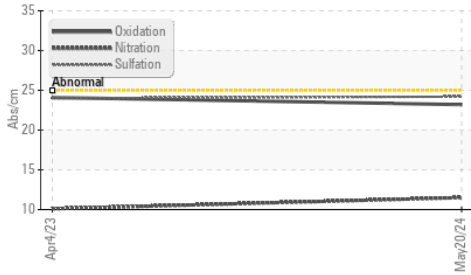
Silicon	ppm	ASTM D5185m	>25	<b>12</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>18</b>	6	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.5</b>	10.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.2</b>	24.0	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

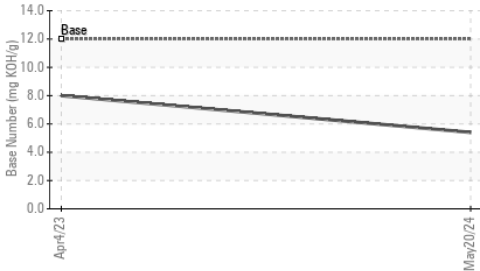
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	3	---
Boron	ppm	ASTM D5185m		<b>15</b>	26	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>90</b>	46	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>618</b>	498	---
Calcium	ppm	ASTM D5185m		<b>1585</b>	1587	---
Phosphorus	ppm	ASTM D5185m		<b>738</b>	758	---
Zinc	ppm	ASTM D5185m		<b>1019</b>	972	---
Sulfur	ppm	ASTM D5185m		<b>2909</b>	2496	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.2</b>	24.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	12	<b>5.4</b>	8.0	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.2</b>	13.9	---

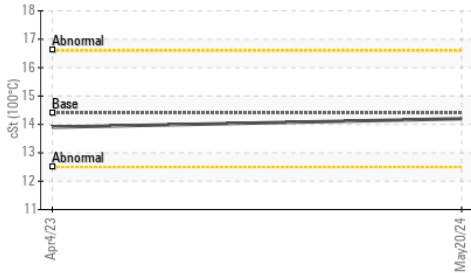
**FT-IR (Direct Trend)**



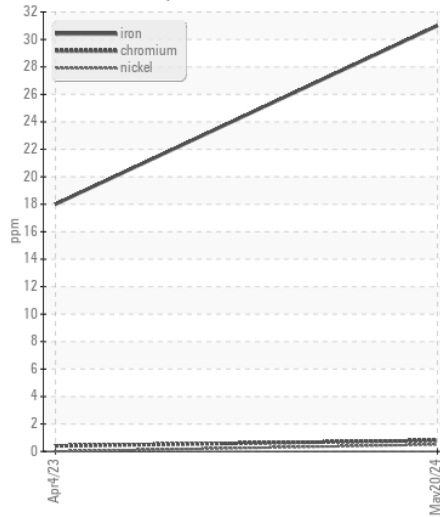
**Base Number**



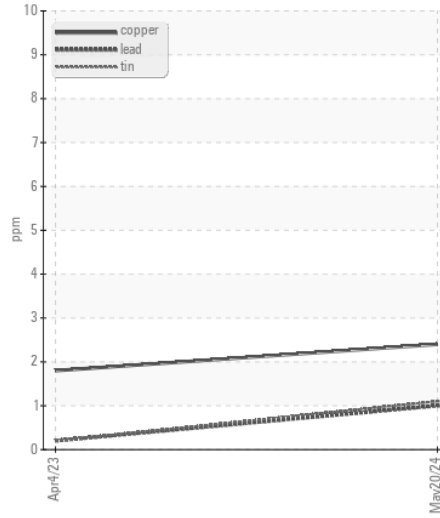
**Viscosity @ 100°C**



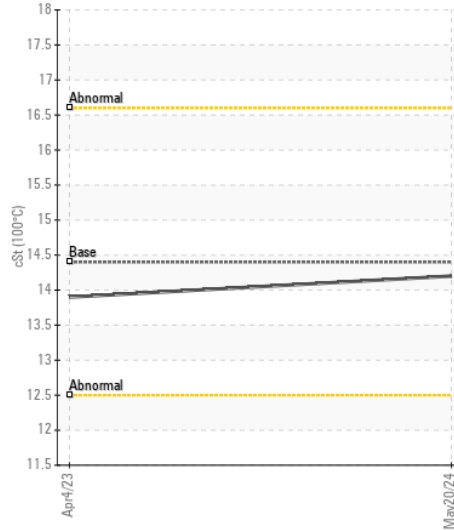
**Ferrous Alloys**



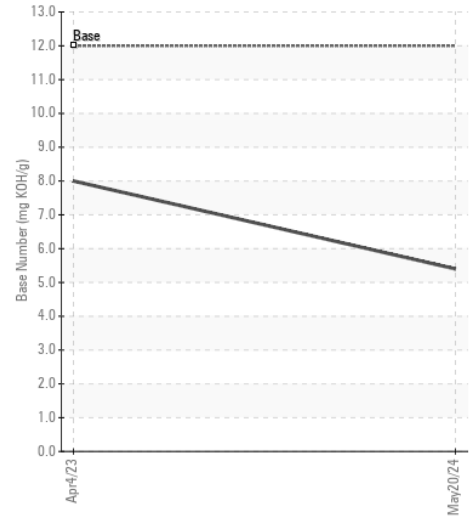
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0016494  
**Lab Number** : 06190301  
**Unique Number** : 11047053  
**Test Package** : FLEET

**Received** : 24 May 2024  
**Tested** : 26 May 2024  
**Diagnosed** : 26 May 2024 - Wes Davis

**RTL PACLEASE - 7002 - San Antonio**  
 8810 IH-10 Frontage Road  
 Converse, TX  
 US 78109

Contact: Mike Friel  
 FrielM@RushEnterprises.Com

T: (210)901-7283

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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