



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 9571522**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (45 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: Idle hrs - 4920 (49.20%) )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0018004</b>	RPL0012549	RPL0006307
Sample Date		Client Info		<b>10 Jun 2024</b>	14 Dec 2023	17 Mar 2023
Machine Age	mls	Client Info		<b>226294</b>	206281	170701
Oil Age	mls	Client Info		<b>10000</b>	12325	10420
Filter Age	mls	Client Info		<b>10000</b>	12325	10420
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>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>5</b>	<1	5
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	6	4
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	2	<1
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.

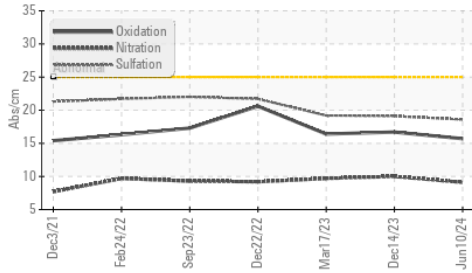
Silicon	ppm	ASTM D5185m	>25	<b>7</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	7	6
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	10.0	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.6</b>	19.1	19.2
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

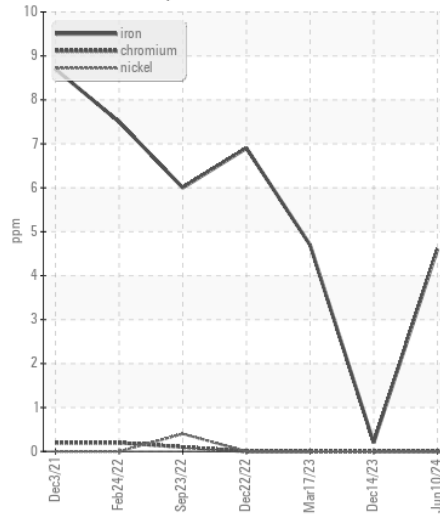
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	0
Boron	ppm	ASTM D5185m	0	<b>55</b>	58	57
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>104</b>	125	111
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	0	<b>655</b>	681	591
Calcium	ppm	ASTM D5185m		<b>1300</b>	1171	1271
Phosphorus	ppm	ASTM D5185m		<b>760</b>	758	704
Zinc	ppm	ASTM D5185m		<b>880</b>	925	871
Sulfur	ppm	ASTM D5185m		<b>3437</b>	3129	3082
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.7</b>	16.7	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>6.9</b>	5.9	6.8
Visc @ 100°C	cSt	ASTM D445	14	<b>12.7</b>	13.6	13.0

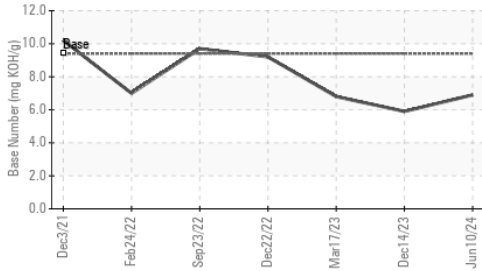
**FT-IR (Direct Trend)**



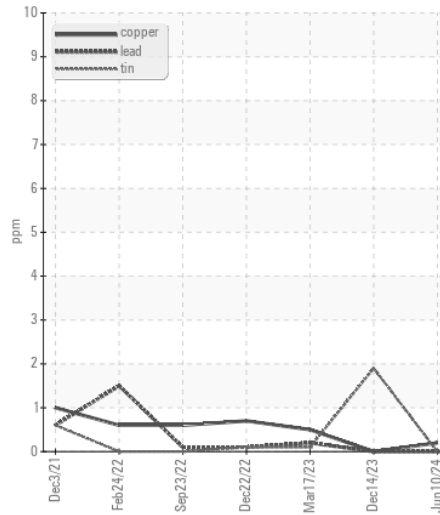
**Ferrous Alloys**



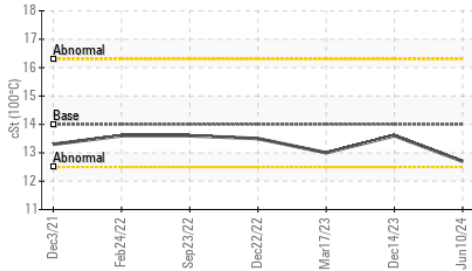
**Base Number**



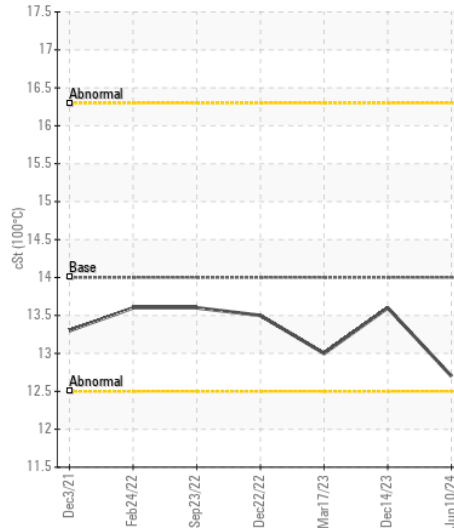
**Non-ferrous Metals**



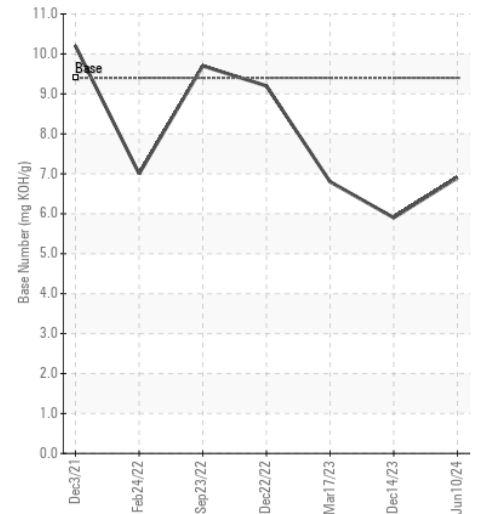
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0018004 **Received** : 17 Jun 2024  
**Lab Number** : 06211254 **Tested** : 18 Jun 2024  
**Unique Number** : 11084118 **Diagnosed** : 18 Jun 2024 - Angela Borella  
**Test Package** : FLEET

**RTL PACLEASE - 7004 - Austin**  
 1205 Smith Road  
 Austin, TX  
 US 78721  
 Contact: David Johnson  
 JohnsonD@RushEnterprises.com  
 T: (512)401-7063  
 F:

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)