



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 459579**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 15W40 (44 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0011814</b>	RPL0011760	RPL0011725
Sample Date		Client Info		<b>21 Jun 2024</b>	20 Mar 2024	04 Jan 2024
Machine Age	mls	Client Info		<b>157881</b>	146160	0
Oil Age	mls	Client Info		<b>11721</b>	13985	0
Filter Age	mls	Client Info		<b>11721</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>4</b>	9	20
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	6	14
Lead	ppm	ASTM D5185m	>150	<b>0</b>	<1	3
Copper	ppm	ASTM D5185m	>90	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

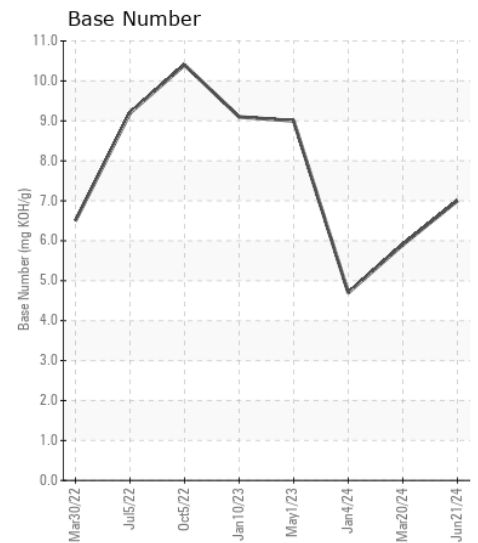
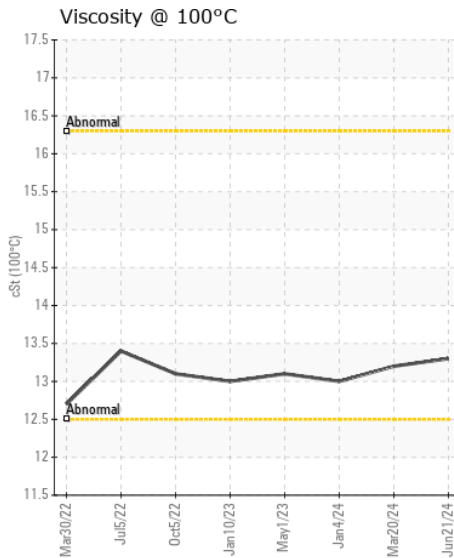
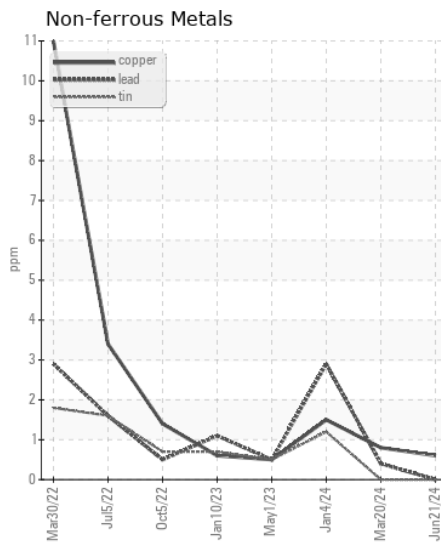
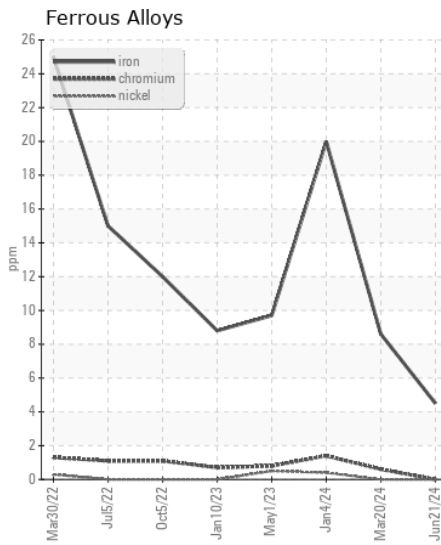
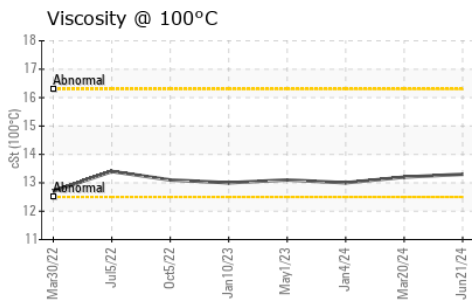
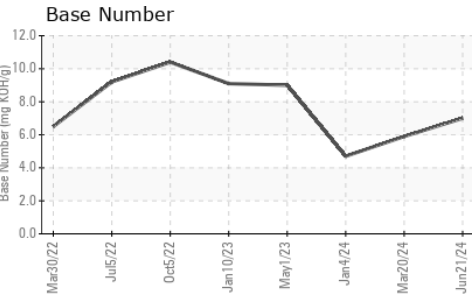
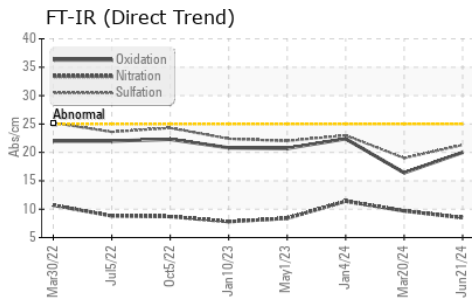
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>5</b>	5	8
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	10	35
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>0.2</b>	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	9.7	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	19.0	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

## 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	>118	<b>2</b>	2	0
Boron	ppm	ASTM D5185m		<b>79</b>	98	25
Barium	ppm	ASTM D5185m		<b>0</b>	0	10
Molybdenum	ppm	ASTM D5185m		<b>90</b>	123	110
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>616</b>	674	597
Calcium	ppm	ASTM D5185m		<b>1261</b>	1307	1285
Phosphorus	ppm	ASTM D5185m		<b>774</b>	727	749
Zinc	ppm	ASTM D5185m		<b>841</b>	829	826
Sulfur	ppm	ASTM D5185m		<b>3277</b>	3629	3175
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.0</b>	16.4	22.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.0</b>	5.9	4.7
Visc @ 100°C	cSt	ASTM D445		<b>13.3</b>	13.2	13.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0011814  
**Lab Number** : 06220629  
**Unique Number** : 11098826  
**Test Package** : FLEET

**Received** : 26 Jun 2024  
**Tested** : 27 Jun 2024  
**Diagnosed** : 27 Jun 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: