



WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**

# OIL ANALYSIS REPORT

Area

**(80229280)**

Machine Id

**PETERBILT 459475**

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>RPL0019835</b>	RPL0011729	RPL0003839
Sample Date		Client Info		<b>21 Jun 2024</b>	02 Jan 2024	08 Dec 2022
Machine Age	mls	Client Info		<b>197094</b>	172181	116787
Oil Age	mls	Client Info		<b>24913</b>	23590	24011
Filter Age	mls	Client Info		<b>12430</b>	23590	24011
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>21</b>	24	30
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	2	3
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>12</b>	25	26
Lead	ppm	ASTM D5185m	>150	<b>2</b>	2	3
Copper	ppm	ASTM D5185m	>90	<b>1</b>	<1	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	1
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

## CONTAMINATION

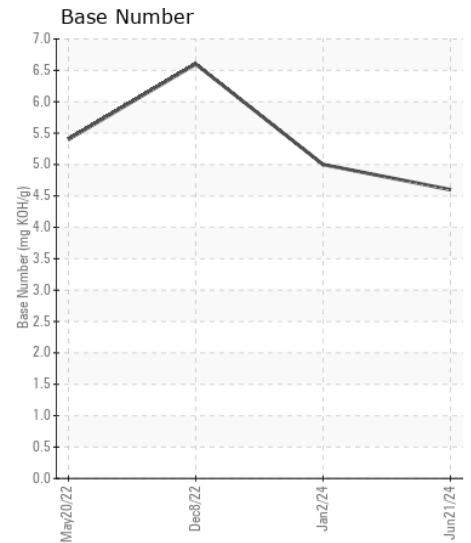
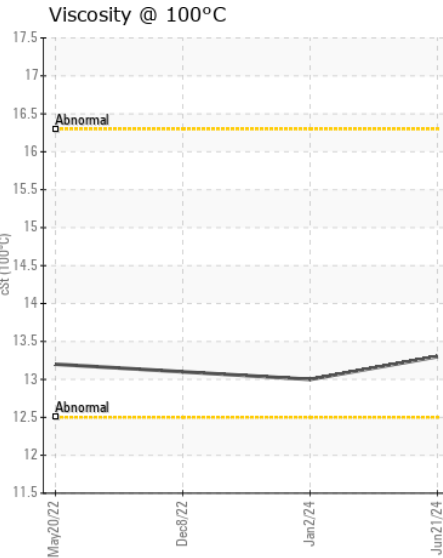
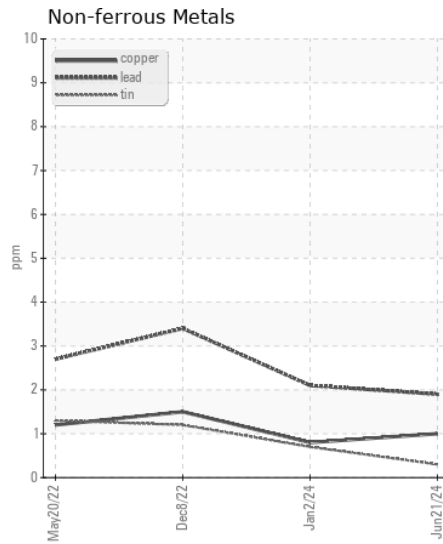
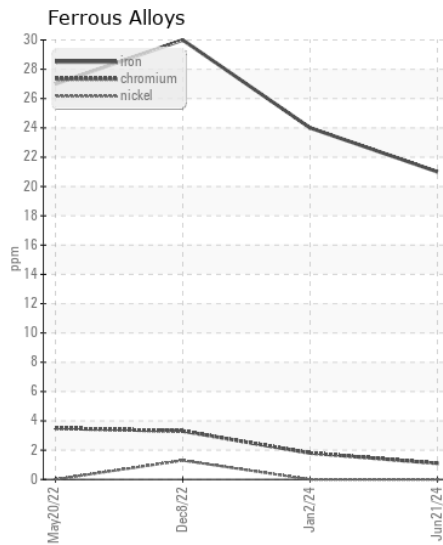
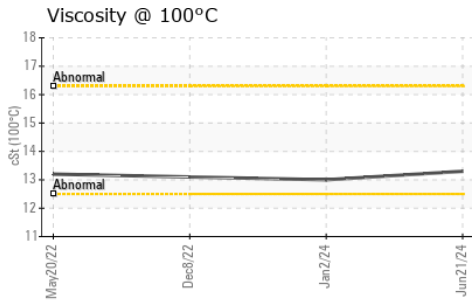
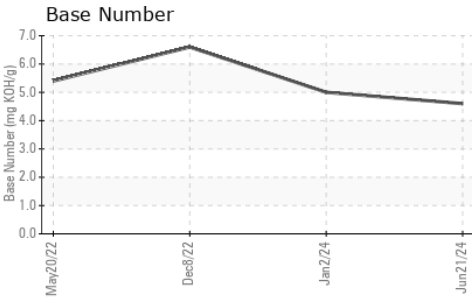
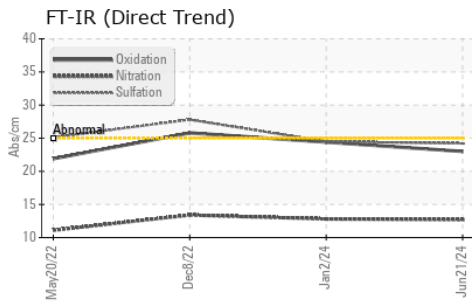
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>8</b>	8	10
Potassium	ppm	ASTM D5185m	>20	<b>21</b>	50	47
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>0.7</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.7</b>	12.8	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.2</b>	24.5	27.8
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

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>6</b>	0	3
Boron	ppm	ASTM D5185m		<b>35</b>	21	38
Barium	ppm	ASTM D5185m		<b>0</b>	10	0
Molybdenum	ppm	ASTM D5185m		<b>126</b>	106	90
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>714</b>	601	744
Calcium	ppm	ASTM D5185m		<b>1298</b>	1321	1559
Phosphorus	ppm	ASTM D5185m		<b>749</b>	828	834
Zinc	ppm	ASTM D5185m		<b>890</b>	867	1049
Sulfur	ppm	ASTM D5185m		<b>3525</b>	3463	3359
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.0</b>	24.4	25.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.6</b>	5.0	6.6
Visc @ 100°C	cSt	ASTM D445		<b>13.3</b>	13.0	13.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0019835  
**Lab Number** : 06220622  
**Unique Number** : 11098819  
**Test Package** : FLEET

**Received** : 26 Jun 2024  
**Tested** : 27 Jun 2024  
**Diagnosed** : 27 Jun 2024 - Angela Borella

**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: