



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 459533**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 15W40 (42 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0011810</b>	RPL0011759	RPL0011721
Sample Date		Client Info		<b>21 Jun 2024</b>	20 Mar 2024	02 Jan 2024
Machine Age	mls	Client Info		<b>347275</b>	326105	292603
Oil Age	mls	Client Info		<b>21170</b>	33502	22208
Filter Age	mls	Client Info		<b>21170</b>	0	22208
Oil Changed		Client Info		<b>Changed</b>	Not 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>17</b>	30	24
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	6	5
Lead	ppm	ASTM D5185m	>150	<b>8</b>	13	13
Copper	ppm	ASTM D5185m	>90	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<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

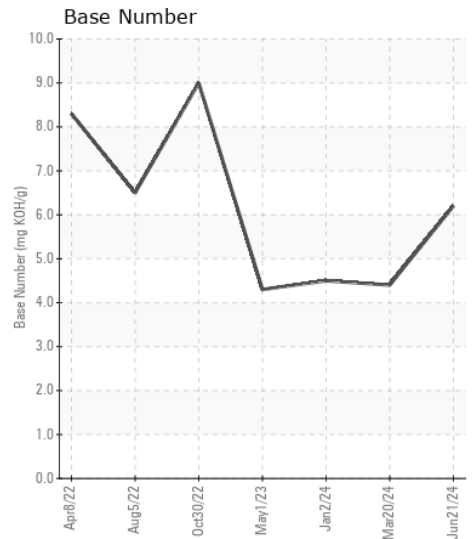
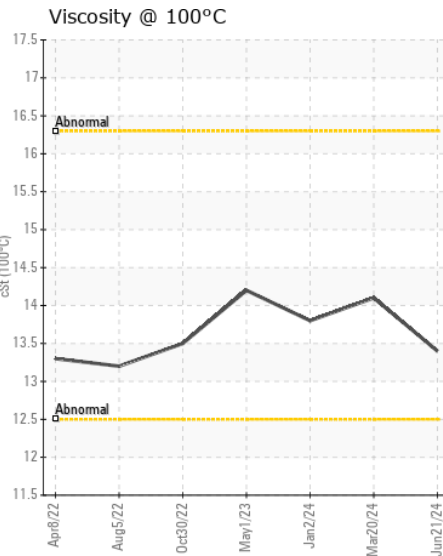
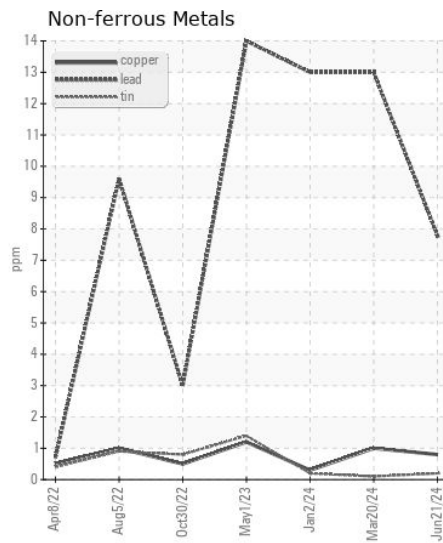
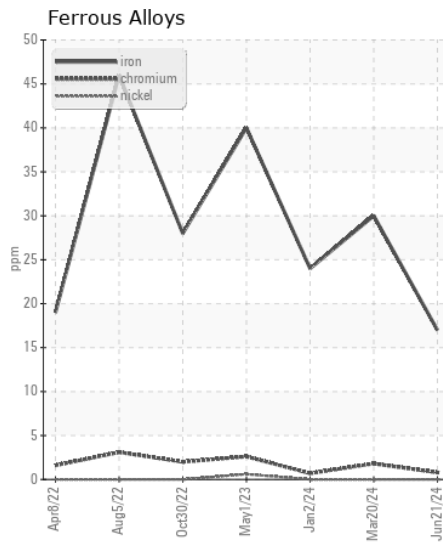
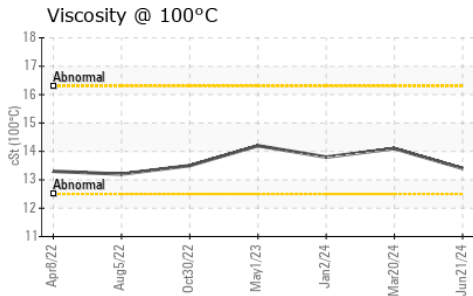
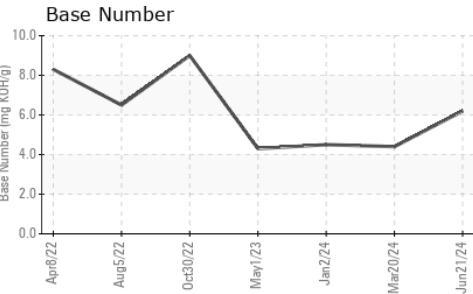
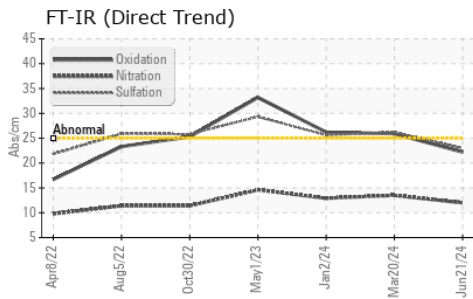
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>7</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	5
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>0.6</b>	0.9	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.0</b>	13.5	12.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	26.2	25.6
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	2
Boron	ppm	ASTM D5185m		<b>29</b>	26	27
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>84</b>	122	123
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>601</b>	665	708
Calcium	ppm	ASTM D5185m		<b>1569</b>	1515	1389
Phosphorus	ppm	ASTM D5185m		<b>803</b>	790	763
Zinc	ppm	ASTM D5185m		<b>962</b>	905	928
Sulfur	ppm	ASTM D5185m		<b>3329</b>	3633	3161
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.2</b>	25.9	26.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.2</b>	4.4	4.5
Visc @ 100°C	cSt	ASTM D445		<b>13.4</b>	14.1	13.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0011810  
**Lab Number** : 06220630  
**Unique Number** : 11098827  
**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  
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 US 79761  
 Contact: David Johnson  
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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)