



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 459489**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 15W40 (22 QTS)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

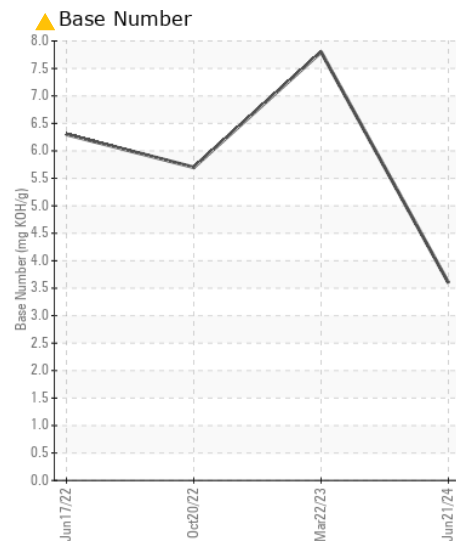
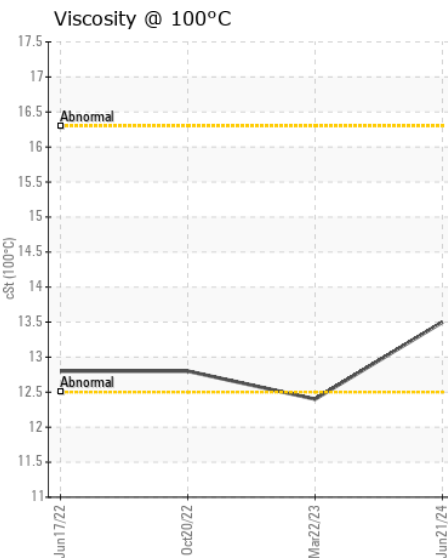
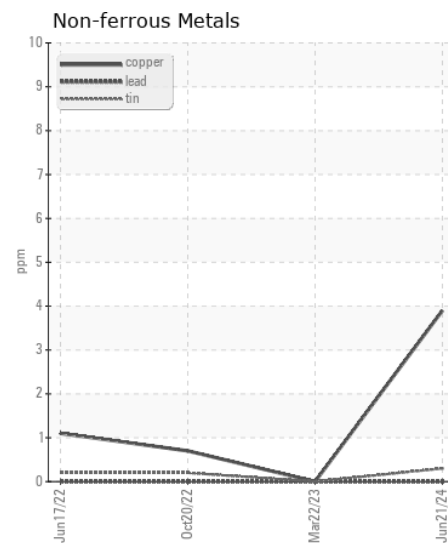
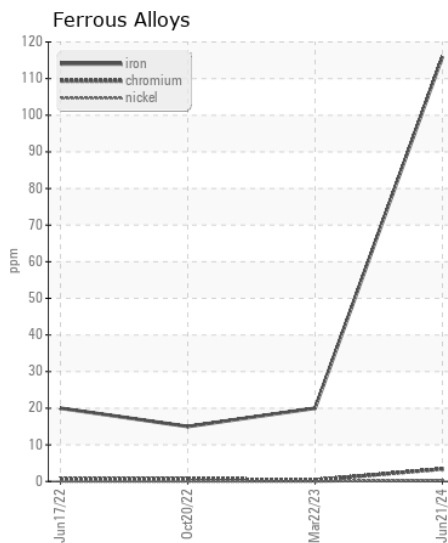
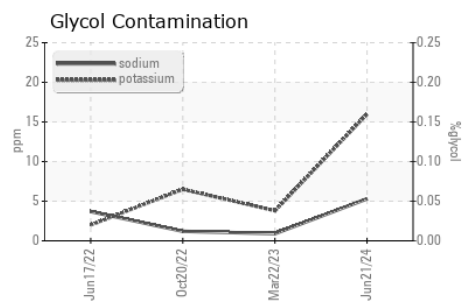
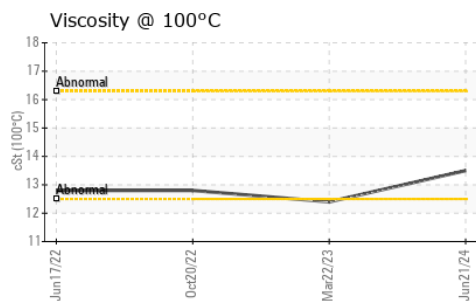
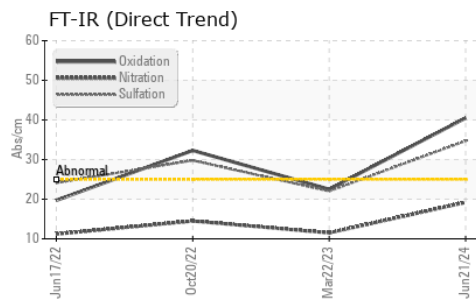
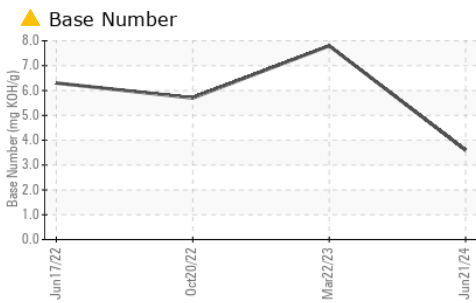
The BN level is low. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0011801</b>	RPL0003920	RPL0003796
Sample Date		Client Info		<b>21 Jun 2024</b>	22 Mar 2023	20 Oct 2022
Machine Age	mls	Client Info		<b>118856</b>	86251	71549
Oil Age	mls	Client Info		<b>14858</b>	14702	9876
Filter Age	mls	Client Info		<b>14858</b>	14702	9876
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ATTENTION	NORMAL

Iron	ppm	ASTM D5185m	>165	<b>116</b>	20	15
Chromium	ppm	ASTM D5185m	>5	<b>3</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</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>19</b>	5	4
Lead	ppm	ASTM D5185m	>150	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>90	<b>4</b>	0	<1
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<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

Silicon	ppm	ASTM D5185m	>35	<b>21</b>	10	8
Potassium	ppm	ASTM D5185m	>20	<b>16</b>	4	6
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	▲ 2.7	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>7.5	<b>1.5</b>	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>19.2</b>	11.5	14.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>34.7</b>	22.0	29.8
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

Sodium	ppm	ASTM D5185m	>118	<b>5</b>	<1	1
Boron	ppm	ASTM D5185m		<b>22</b>	35	35
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>118</b>	50	49
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>712</b>	537	568
Calcium	ppm	ASTM D5185m		<b>1371</b>	1512	1495
Phosphorus	ppm	ASTM D5185m		<b>792</b>	696	758
Zinc	ppm	ASTM D5185m		<b>948</b>	923	933
Sulfur	ppm	ASTM D5185m		<b>3240</b>	2517	2675
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>40.5</b>	22.5	32.3
Base Number (BN)	mg KOH/g	ASTM D2896		▲ <b>3.6</b>	7.8	5.7
Visc @ 100°C	cSt	ASTM D445		<b>13.5</b>	● 12.4	12.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0011801 **Received** : 26 Jun 2024  
**Lab Number** : 06220643 **Tested** : 27 Jun 2024  
**Unique Number** : 11098840 **Diagnosed** : 27 Jun 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: Glycol )

**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: