



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 9571334**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (22 QTS)**

## RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0018007</b>	RPL0000871	RPL0009487
Sample Date		Client Info		<b>25 Jun 2024</b>	27 Feb 2024	14 Jun 2023
Machine Age	mls	Client Info		<b>0</b>	250125	237520
Oil Age	mls	Client Info		<b>0</b>	4637	7111
Filter Age	mls	Client Info		<b>0</b>	4637	7111
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>21</b>	12	9
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	8	8
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	3
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	3
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

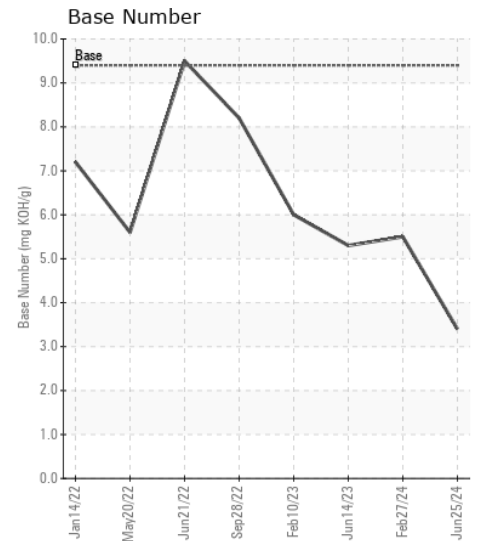
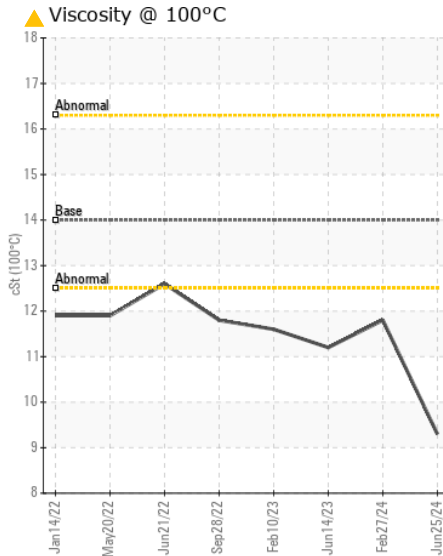
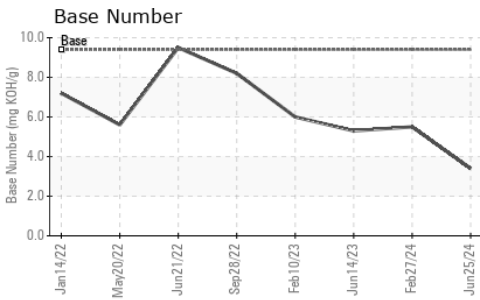
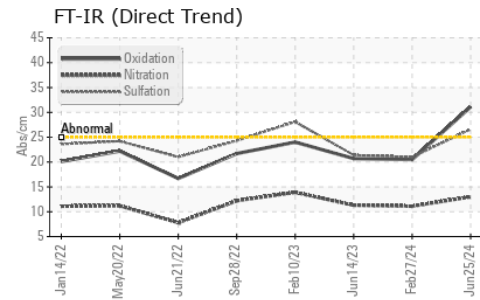
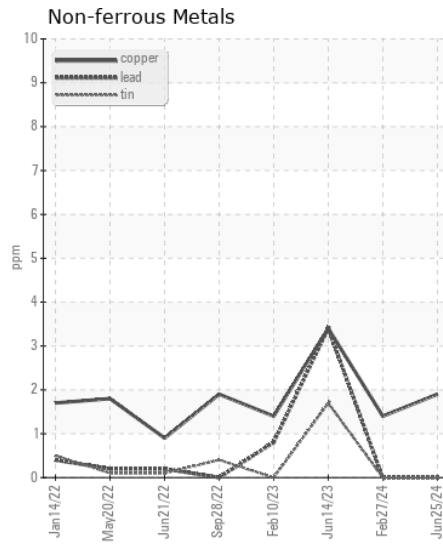
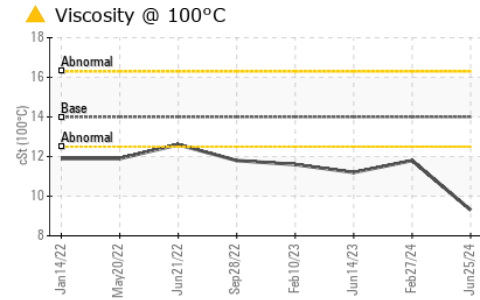
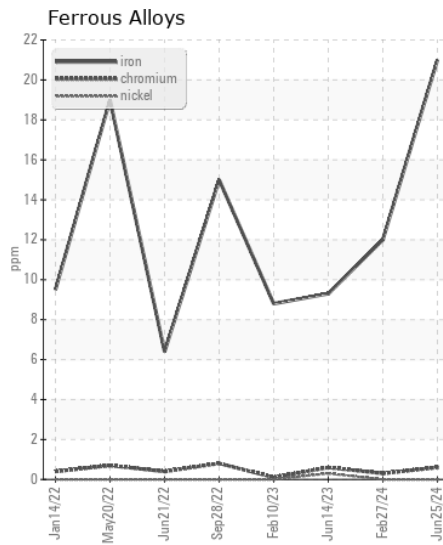
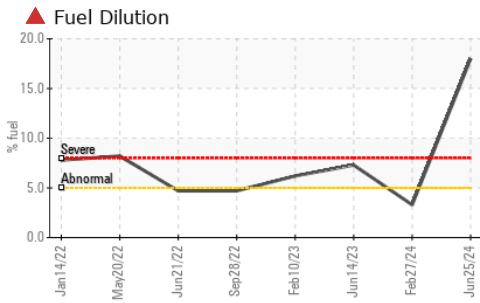
There is a high amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>16</b>	13	7
Fuel	%	ASTM D3524	>5	<b>▲ 18.0</b>	▲ 3.3	▲ 7.3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.0</b>	11.1	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.6</b>	21.0	21.4
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

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>8</b>	5	4
Boron	ppm	ASTM D5185m	0	<b>25</b>	52	47
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>97</b>	122	107
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Magnesium	ppm	ASTM D5185m	0	<b>572</b>	654	642
Calcium	ppm	ASTM D5185m		<b>1075</b>	1202	1246
Phosphorus	ppm	ASTM D5185m		<b>632</b>	654	717
Zinc	ppm	ASTM D5185m		<b>746</b>	811	846
Sulfur	ppm	ASTM D5185m		<b>2784</b>	2792	3216
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>31.1</b>	20.5	20.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>3.4</b>	5.5	5.3
Visc @ 100°C	cSt	ASTM D445	14	<b>▲ 9.3</b>	▲ 11.8	▲ 11.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0018007 **Received** : 26 Jun 2024  
**Lab Number** : 06220626 **Tested** : 28 Jun 2024  
**Unique Number** : 11098823 **Diagnosed** : 28 Jun 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**RTL PACLEASE - 7004 - Austin**  
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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)