



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id  
**PETERBILT 9571581**  
 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 from the component if this has not already been done. We recommend an early resample to monitor this condition.

## WEAR

All component wear rates are normal.

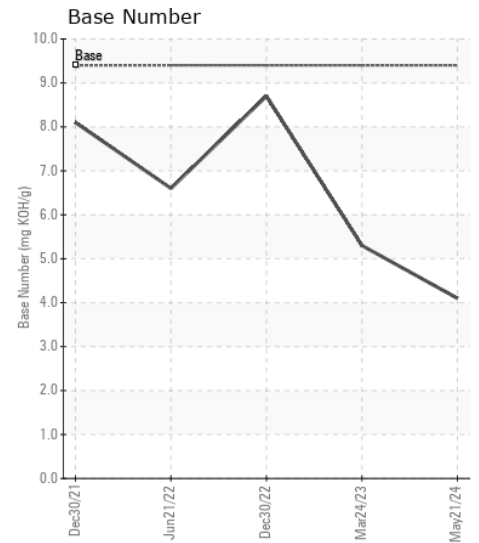
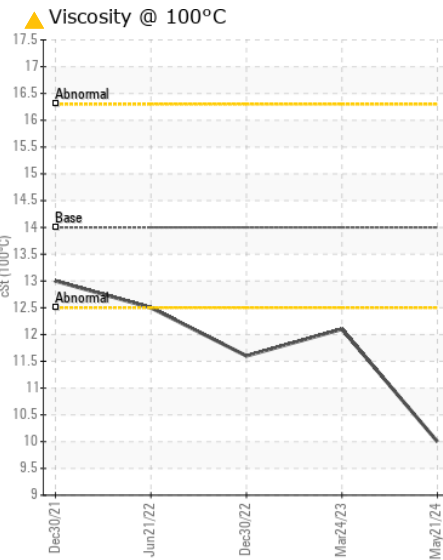
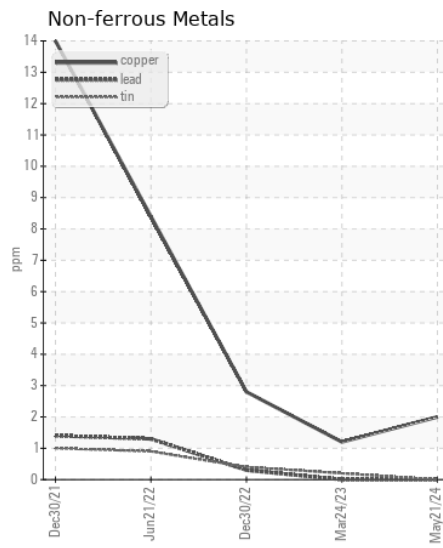
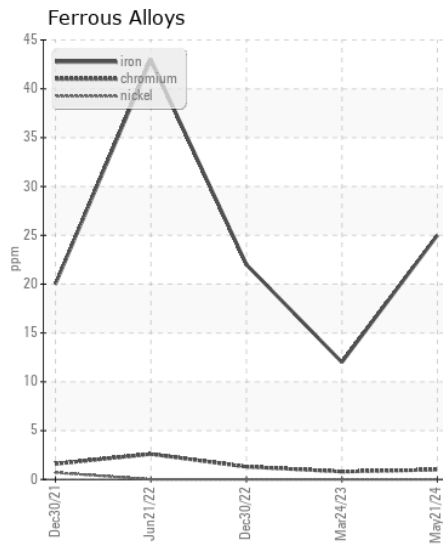
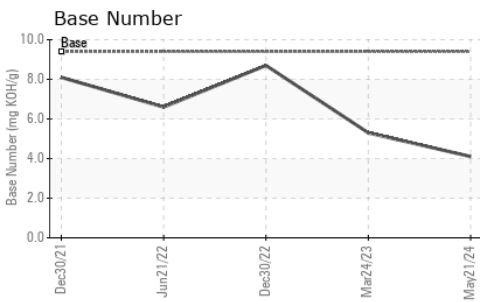
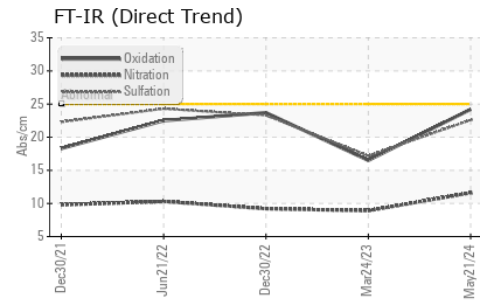
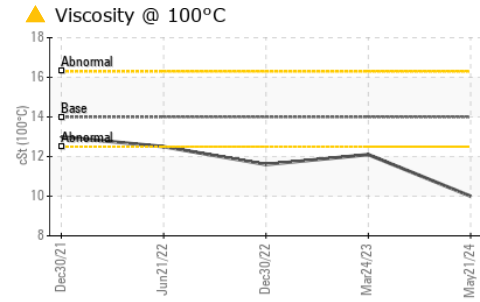
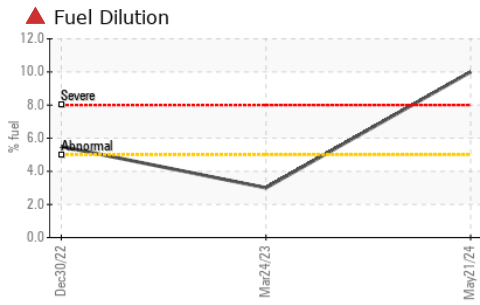
## CONTAMINATION

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

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0015914</b>	RPL0006303	RPL0006317
Sample Date		Client Info		<b>21 May 2024</b>	24 Mar 2023	30 Dec 2022
Machine Age	mls	Client Info		<b>0</b>	74338	8015
Oil Age	mls	Client Info		<b>0</b>	74338	8015
Filter Age	mls	Client Info		<b>0</b>	74338	8015
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>	MARGINAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	<b>25</b>	12	22
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>14</b>	5	13
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	3
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>22</b>	12	29
Fuel	%	ASTM D3524	>5	<b>▲ 10.0</b>	▲ 3.0	▲ 5.5
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>	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.6</b>	8.9	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.6</b>	17.2	23.3
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		<b>2</b>	0	0
Boron	ppm	ASTM D5185m	0	<b>45</b>	80	29
Barium	ppm	ASTM D5185m	0	<b>0</b>	2	1
Molybdenum	ppm	ASTM D5185m	0	<b>114</b>	107	50
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>641</b>	577	520
Calcium	ppm	ASTM D5185m		<b>1183</b>	1220	1490
Phosphorus	ppm	ASTM D5185m		<b>702</b>	690	729
Zinc	ppm	ASTM D5185m		<b>823</b>	846	906
Sulfur	ppm	ASTM D5185m		<b>3236</b>	2873	2420
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>24.2</b>	16.5	23.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>4.1</b>	5.3	8.7
Visc @ 100°C	cSt	ASTM D445	14	<b>▲ 10.0</b>	12.1	▲ 11.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0015914 **Received** : 22 May 2024  
**Lab Number** : 06187490 **Tested** : 28 May 2024  
**Unique Number** : 11044242 **Diagnosed** : 28 May 2024 - Wes Davis  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

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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