



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 35**  
Component  
**Diesel Engine**  
Fluid  
**DURAMAX 10W30 (8 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0030916</b>	DC0033568	DC0026427
Sample Date		Client Info		<b>17 May 2024</b>	08 Apr 2024	29 Dec 2023
Machine Age	mls	Client Info		<b>525000</b>	679774	505000
Oil Age	mls	Client Info		<b>20000</b>	3764	25000
Filter Age	mls	Client Info		<b>20000</b>	3764	25000
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>7</b>	24	6
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	2	3
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	4	1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

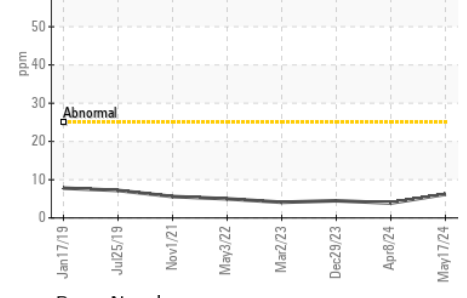
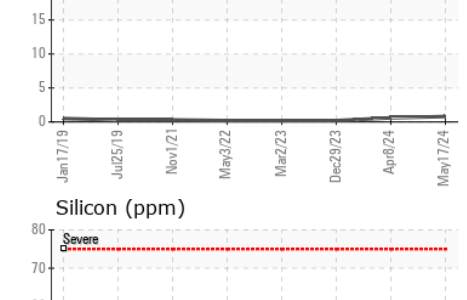
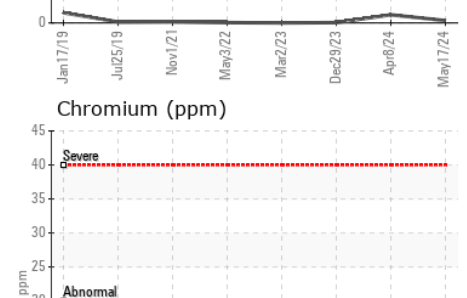
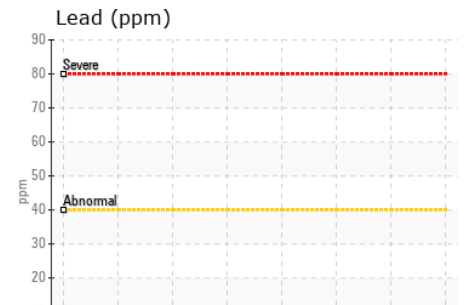
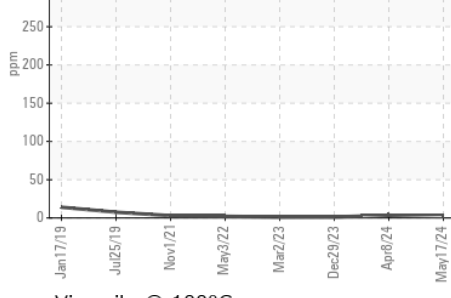
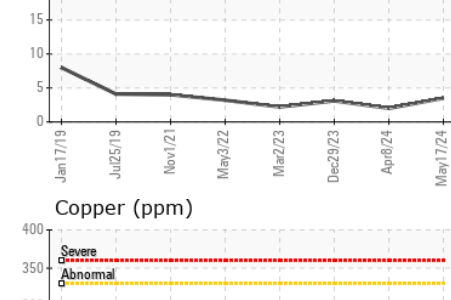
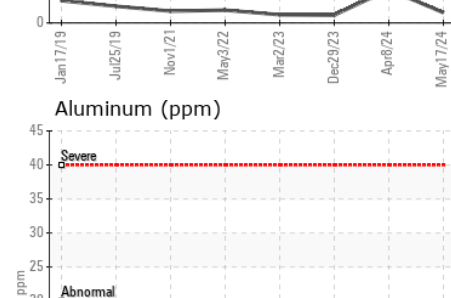
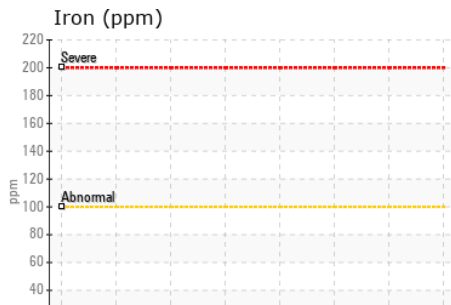
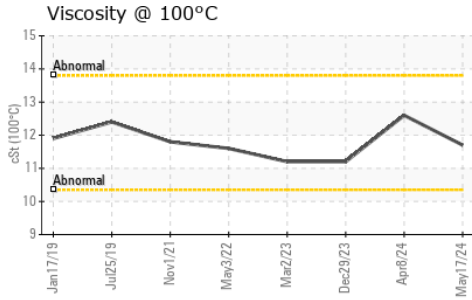
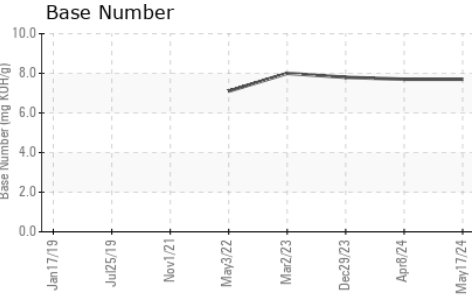
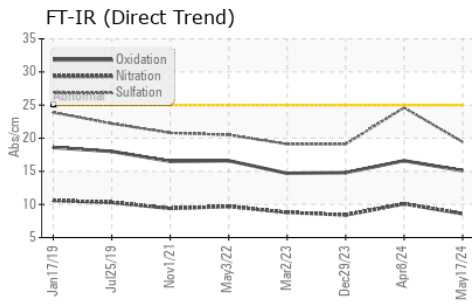
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	3
Fuel		WC Method	>5	<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	>3	<b>0.3</b>	▲ 3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	10.1	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.4</b>	24.6	19.1
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		<b>3</b>	0	<1
Boron	ppm	ASTM D5185m		<b>6</b>	4	2
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	2	10
Molybdenum	ppm	ASTM D5185m		<b>58</b>	52	58
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>837</b>	757	885
Calcium	ppm	ASTM D5185m		<b>1240</b>	1123	1291
Phosphorus	ppm	ASTM D5185m		<b>1034</b>	984	1197
Zinc	ppm	ASTM D5185m		<b>1189</b>	1082	1247
Sulfur	ppm	ASTM D5185m		<b>3439</b>	3120	4169
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.1</b>	16.6	14.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.7</b>	7.7	7.8
Visc @ 100°C	cSt	ASTM D445		<b>11.7</b>	12.6	11.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0030916 **Received** : 28 May 2024  
**Lab Number** : 06191997 **Tested** : 04 Jun 2024  
**Unique Number** : 11048749 **Diagnosed** : 04 Jun 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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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)