



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT CD150017**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0191540</b>	---	---
Sample Date		Client Info		<b>06 Feb 2024</b>	---	---
Machine Age	mls	Client Info		<b>743215</b>	---	---
Oil Age	mls	Client Info		<b>10000</b>	---	---
Filter Age	mls	Client Info		<b>10000</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>13</b>	---	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>150	<b>2</b>	---	---
Copper	ppm	ASTM D5185m	>90	<b>3</b>	---	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

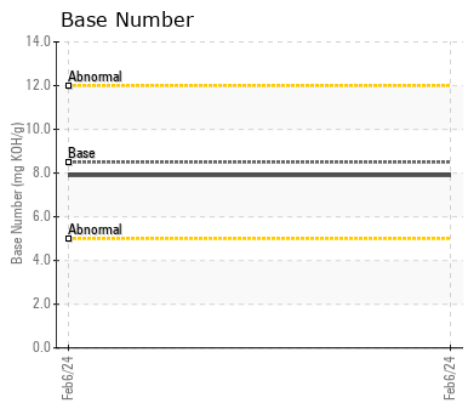
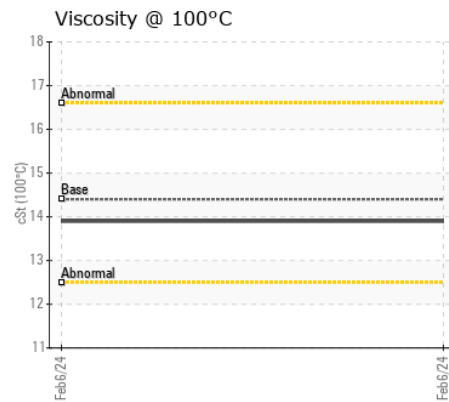
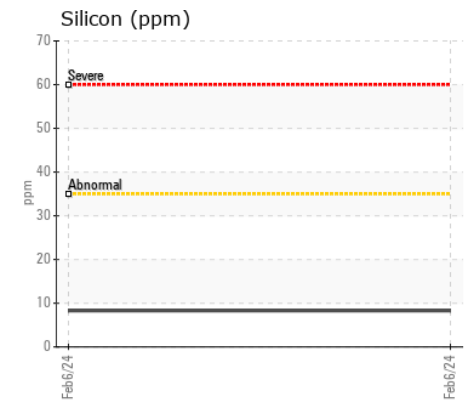
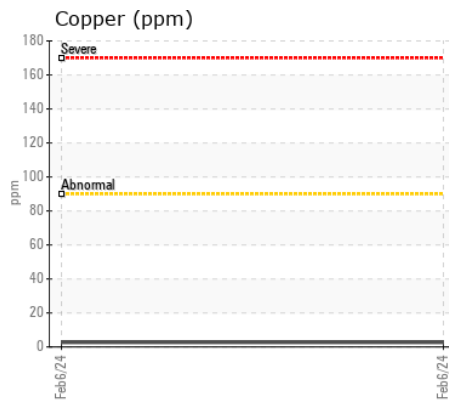
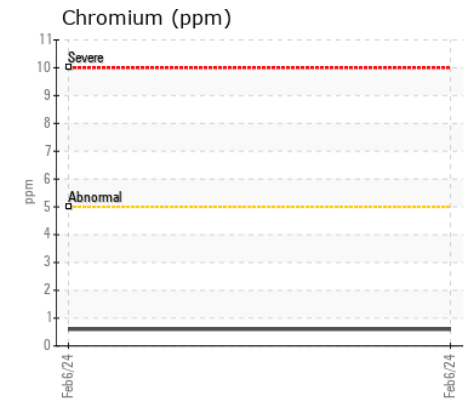
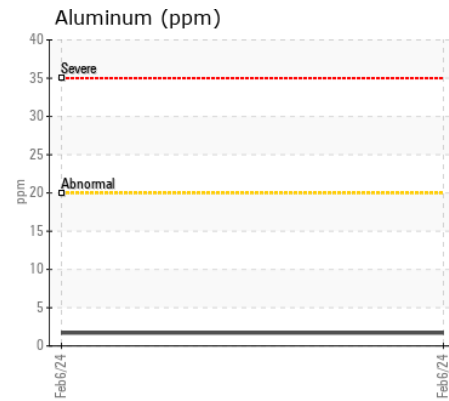
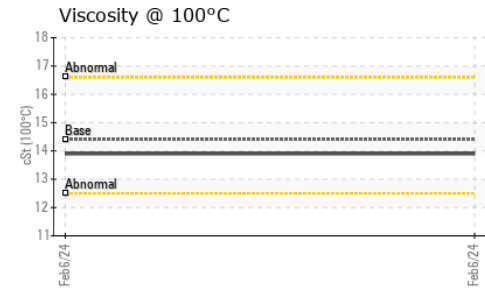
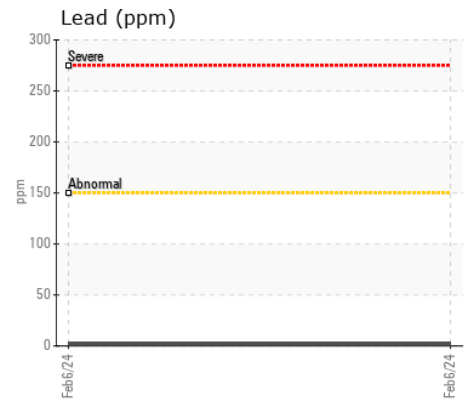
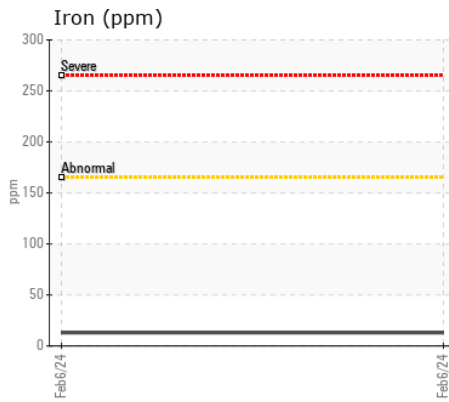
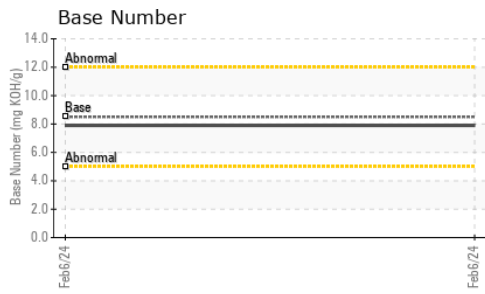
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>8</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>7.5	<b>0.3</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.8</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.6</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

## 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	>216	<b>2</b>	---	---
Boron	ppm	ASTM D5185m	250	<b>31</b>	---	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	100	<b>95</b>	---	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	450	<b>238</b>	---	---
Calcium	ppm	ASTM D5185m	3000	<b>2099</b>	---	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1010</b>	---	---
Zinc	ppm	ASTM D5185m	1350	<b>1334</b>	---	---
Sulfur	ppm	ASTM D5185m	4250	<b>3481</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>7.9</b>	---	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.9</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0191540 **Received** : 13 Feb 2024  
**Lab Number** : 06087106 **Tested** : 14 Feb 2024  
**Unique Number** : 10874551 **Diagnosed** : 14 Feb 2024 - Wes Davis  
**Test Package** : MOBCE ( Additional Tests: TBN )

**HDS EQUIPMENT MECK COUNTY**  
 5590 W LIBERTY HILL RD  
 YORK, SC  
 US 29745  
 Contact: JAKE HARRELL  
 JAKEHARRELLHDS@GMAIL.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: