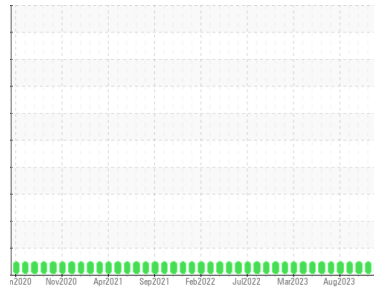




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

**OKLAHOMA**

Machine Id

**PETERBILT 8466**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL SAE 40 (--- QTS)**

### DIAGNOSIS

#### Recommendation

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 result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0857193</b>	WC0838592	WC0838594
Sample Date	Client Info		<b>05 Jan 2024</b>	03 Nov 2023	05 Oct 2023
Machine Age	hrs	Client Info	<b>8192</b>	7984	7894
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
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

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >110	<b>62</b>	50	51
Chromium	ppm	ASTM D5185m >4	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m >25	<b>9</b>	7	8
Lead	ppm	ASTM D5185m >45	<b>8</b>	7	8
Copper	ppm	ASTM D5185m >85	<b>14</b>	15	15
Tin	ppm	ASTM D5185m >4	<b>2</b>	2	2
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	<b>30</b>	27	34
Barium	ppm	ASTM D5185m 10	<b>0</b>	0	12
Molybdenum	ppm	ASTM D5185m 100	<b>30</b>	28	30
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185m 450	<b>794</b>	692	681
Calcium	ppm	ASTM D5185m 3000	<b>1533</b>	1463	1390
Phosphorus	ppm	ASTM D5185m 1150	<b>1224</b>	1006	1021
Zinc	ppm	ASTM D5185m 1350	<b>1493</b>	1354	1312
Sulfur	ppm	ASTM D5185m 4250	<b>3488</b>	2692	2696

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>10</b>	9	9
Sodium	ppm	ASTM D5185m >216	<b>8</b>	7	8
Potassium	ppm	ASTM D5185m >20	<b>18</b>	12	14

### INFRA-RED

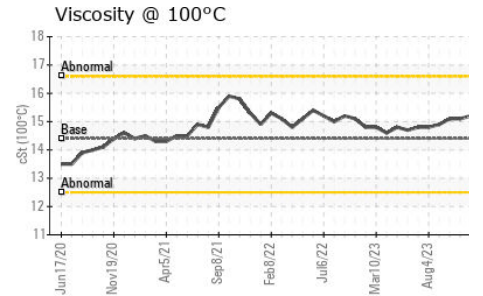
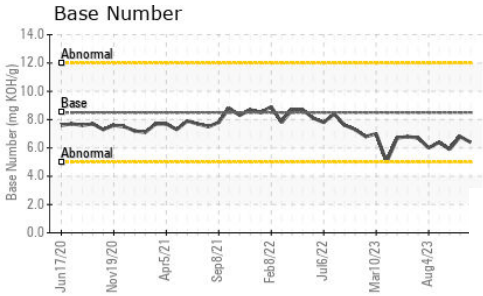
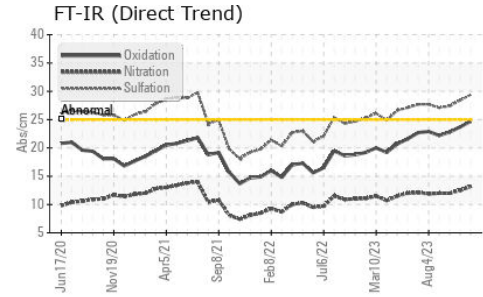
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.7</b>	1.5	1.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>13.2</b>	12.5	12.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>29.4</b>	28.4	27.4

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>24.7</b>	23.7	22.8
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>6.4</b>	6.8	5.9



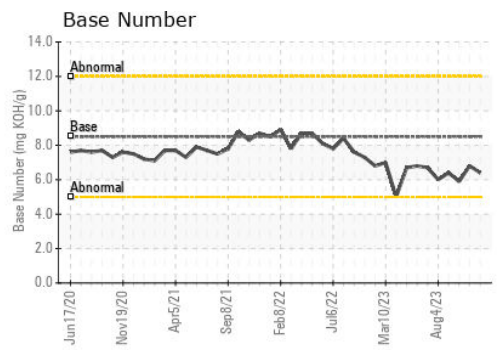
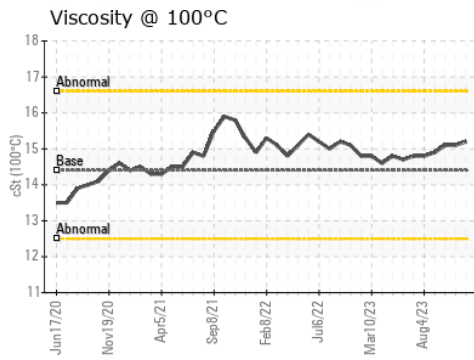
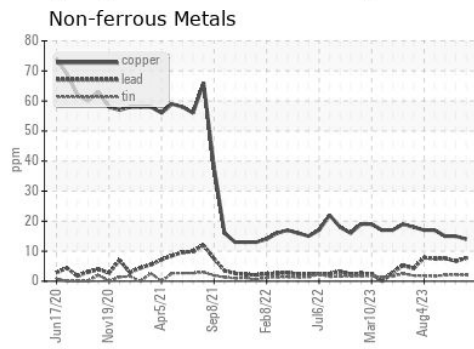
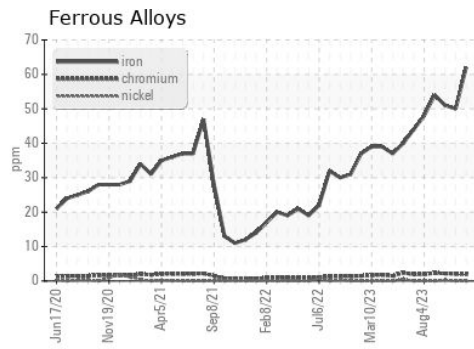
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	<b>15.2</b>	15.1	15.1

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0857193      **Received** : 15 Apr 2024  
**Lab Number** : **06149356**      **Tested** : 16 Apr 2024  
**Unique Number** : 10979434      **Diagnosed** : 17 Apr 2024 - Don Baldrige  
**Test Package** : FLEET

**LIBERTY DISPOSAL**  
 6401 S EASTERN AVE  
 OKLAHOMA CITY, OK  
 US 73149  
 Contact: RICK SCHMIDT  
 r.schmidt@ldi89.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)