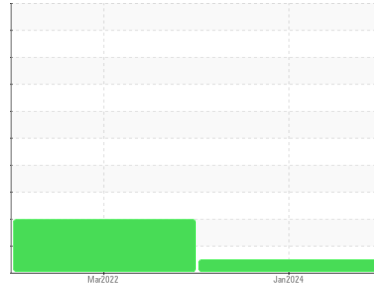


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**172420**  
 Component  
**Diesel Engine**  
 Fluid  
**DISEL ENGINE OIL SAE 10W30 (--- 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>PCA0057261</b>	PCA0020945	---
Sample Date	Client Info		<b>24 Jan 2024</b>	22 Mar 2022	---
Machine Age	mls	Client Info	<b>517133</b>	440258	---
Oil Age	mls	Client Info	<b>13731</b>	22521	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	0.9	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>10</b>	17	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	3	---
Lead	ppm	ASTM D5185m >40	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m >330	<b>3</b>	101	---
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	<b>17</b>	41	---
Barium	ppm	ASTM D5185m 10	<b>10</b>	0	---
Molybdenum	ppm	ASTM D5185m 100	<b>50</b>	23	---
Manganese	ppm	ASTM D5185m	<b>0</b>	1	---
Magnesium	ppm	ASTM D5185m 450	<b>559</b>	767	---
Calcium	ppm	ASTM D5185m 3000	<b>1494</b>	1302	---
Phosphorus	ppm	ASTM D5185m 1150	<b>819</b>	721	---
Zinc	ppm	ASTM D5185m 1350	<b>900</b>	849	---
Sulfur	ppm	ASTM D5185m 4250	<b>2776</b>	2571	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>13</b>	▲ 35	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	25	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	7	---

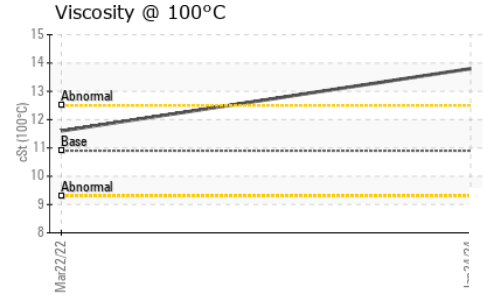
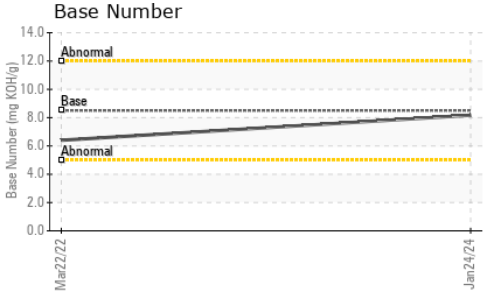
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.0</b>	10.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.7</b>	22.7	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.3</b>	18.5	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>8.17</b>	6.4	---

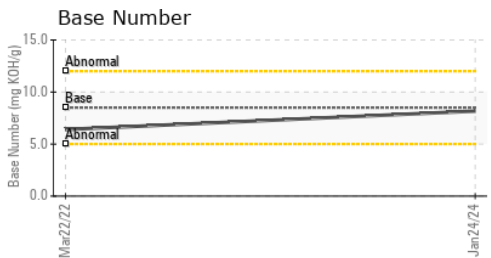
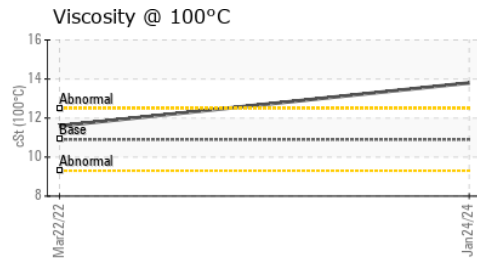
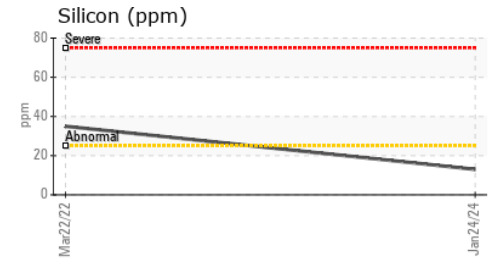
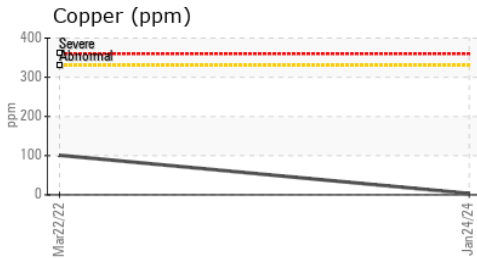
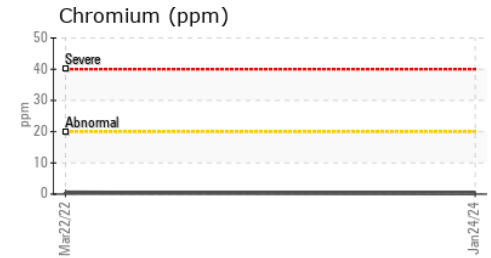
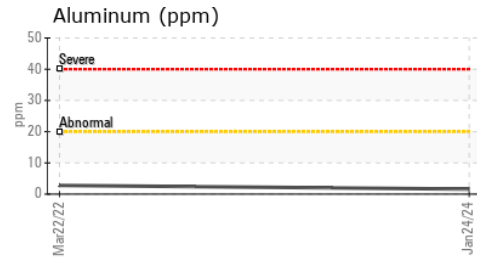
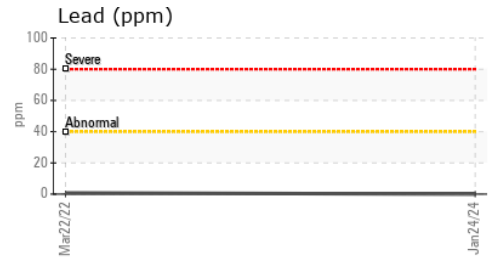
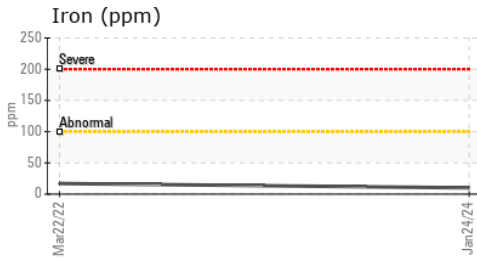
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.9	<b>13.8</b>	▲ 11.6	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0057261 **Received** : 19 Feb 2024  
**Lab Number** : **06093188** **Tested** : 20 Feb 2024  
**Unique Number** : 10886041 **Diagnosed** : 20 Feb 2024 - Sean Felton  
**Test Package** : MOB 2

**VALLEY PACIFIC PETROLEUM SERVICES**  
 152 FRANK WEST CIRCLE  
 STOCKTON, CA  
 US 95206  
 Contact: MARCEY LIGHTFOOT  
 marcey.lightfoot@vpps.net  
 T: (209)461-3611  
 F: (209)888-6196

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)