

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**CASE 120C OT-113 (S/N CPL204160)**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0118118</b>	---	---
Sample Date	Client Info		<b>08 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>196</b>	---	---
Oil Age	hrs	Client Info	<b>196</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>54</b>	---	---
Chromium	ppm	ASTM D5185m >20	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m >4	<b>2</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m >20	<b>9</b>	---	---
Lead	ppm	ASTM D5185m >40	<b>2</b>	---	---
Copper	ppm	ASTM D5185m >330	<b>48</b>	---	---
Tin	ppm	ASTM D5185m >15	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185m 10	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m 100	<b>60</b>	---	---
Manganese	ppm	ASTM D5185m	<b>4</b>	---	---
Magnesium	ppm	ASTM D5185m 450	<b>885</b>	---	---
Calcium	ppm	ASTM D5185m 3000	<b>1077</b>	---	---
Phosphorus	ppm	ASTM D5185m 1150	<b>1133</b>	---	---
Zinc	ppm	ASTM D5185m 1350	<b>1194</b>	---	---
Sulfur	ppm	ASTM D5185m 4250	<b>3695</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>19</b>	---	---
Sodium	ppm	ASTM D5185m >158	<b>6</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>11</b>	---	---
Fuel	%	ASTM D3524 >5	<b>&lt;1.0</b>	---	---

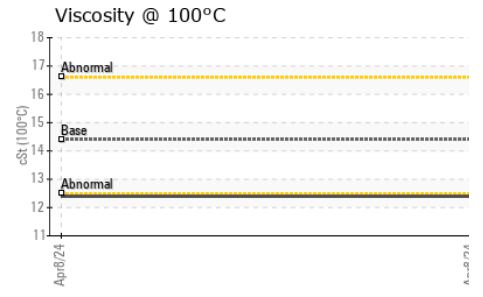
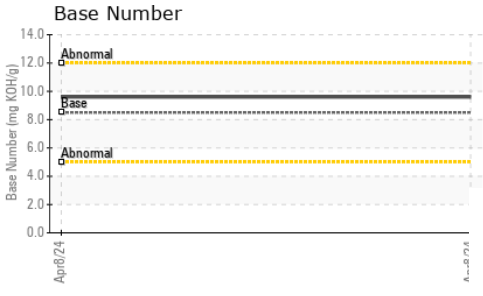
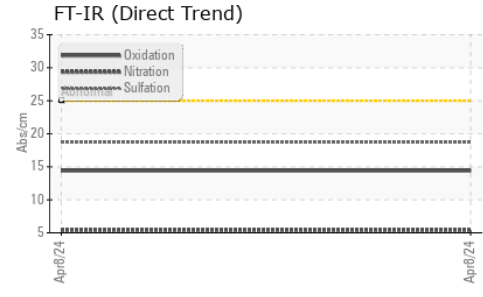
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.4</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.7</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>9.6</b>	---	---

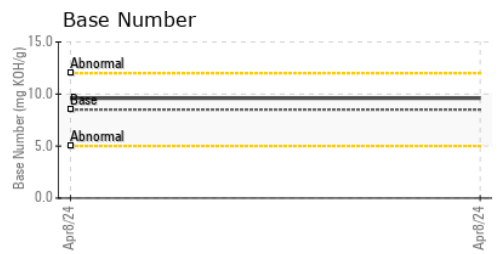
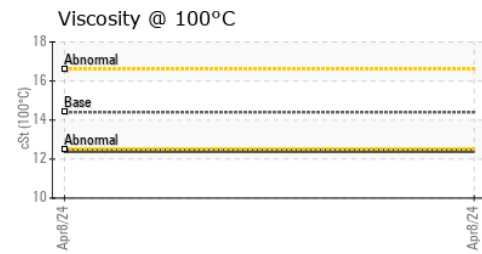
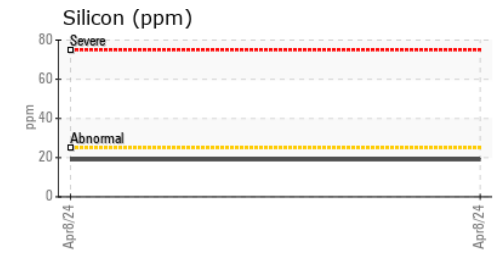
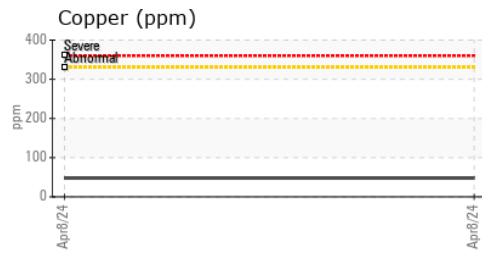
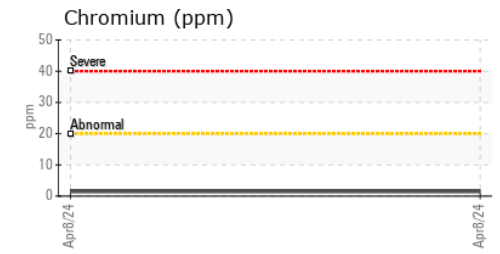
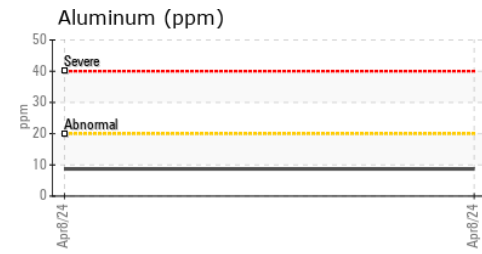
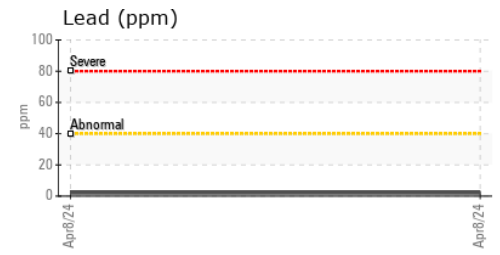
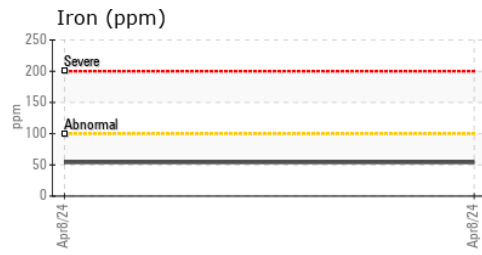
# OIL ANALYSIS REPORT



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	14.4	<b>12.4</b>	---	---

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118118      **Received** : 18 Apr 2024  
**Lab Number** : **06152765**      **Tested** : 23 Apr 2024  
**Unique Number** : 10982843      **Diagnosed** : 23 Apr 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, TBN )

**TRINITAS FARMING**  
 45499 W PANOCHE RD  
 FIREBAUGH, CA  
 US 93622  
 Contact: SPENCER COOPER  
 spencer.cooper@trinitasfarming.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)