



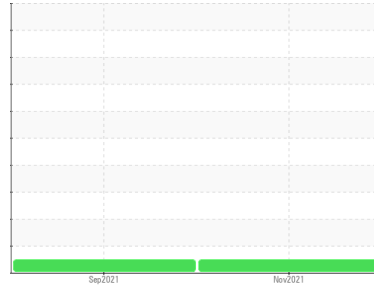
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**GUAY SON/Yavaros**  
 Machine Id  
**CATERPILLAR Pacifico Ind Admiralty MP**  
 Component  
**Center Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (160 LTR)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Rush

)

### 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	history 1	history 2
Sample Number	Client Info	<b>KL0007612</b>	KL0007487	---
Sample Date	Client Info	<b>10 Nov 2021</b>	29 Sep 2021	---
Machine Age	hrs Client Info	<b>450</b>	0	---
Oil Age	hrs Client Info	<b>450</b>	50	---
Oil Changed	Client Info	<b>N/A</b>	Changed	---
Sample Status		<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

method	limit/base	current	history 1	history 2
Fuel	WC Method >5	<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method	<b>NEG</b>	NEG	---

## WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m >100	<b>15</b>	11	---
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	1	---
Nickel	ppm ASTM D5185m >2	<b>&lt;1</b>	<1	---
Titanium	ppm ASTM D5185m >2	<b>&lt;1</b>	<1	---
Silver	ppm ASTM D5185m >2	<b>0</b>	1	---
Aluminum	ppm ASTM D5185m >25	<b>5</b>	7	---
Lead	ppm ASTM D5185m >40	<b>2</b>	<1	---
Copper	ppm ASTM D5185m >330	<b>56</b>	9	---
Tin	ppm ASTM D5185m >15	<b>0</b>	<1	---
Antimony	ppm ASTM D5185m	<b>0</b>	0	---
Vanadium	ppm ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm ASTM D5185m	<b>0</b>	<1	---

## ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	<b>264</b>	370	---
Barium	ppm ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm ASTM D5185m	<b>120</b>	112	---
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm ASTM D5185m	<b>792</b>	600	---
Calcium	ppm ASTM D5185m	<b>1788</b>	1449	---
Phosphorus	ppm ASTM D5185m 1360	<b>703</b>	653	---
Zinc	ppm ASTM D5185m 1480	<b>852</b>	730	---
Sulfur	ppm ASTM D5185m	<b>3252</b>	1919	---

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >25	<b>14</b>	15	---
Sodium	ppm ASTM D5185m	<b>3</b>	5	---
Potassium	ppm ASTM D5185m >20	<b>0</b>	<1	---

## INFRA-RED

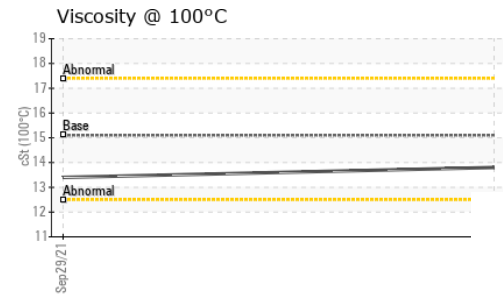
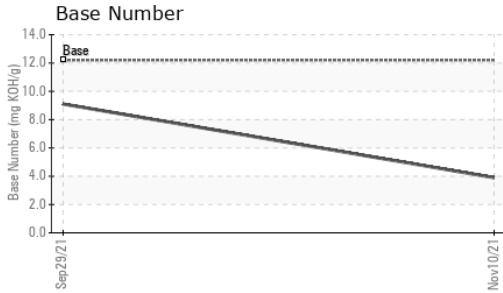
method	limit/base	current	history 1	history 2
Soot %	% *ASTM D7844 >3	<b>0</b>	0.1	---
Nitration	Abs/cm *ASTM D7624 >20	<b>11.6</b>	4.7	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>23.4</b>	22	---

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>19.8</b>	14.9	---
Base Number (BN)	mg KOH/g ASTM D2896 12.2	<b>3.9</b>	9.1	---



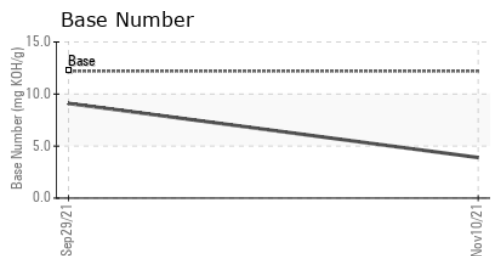
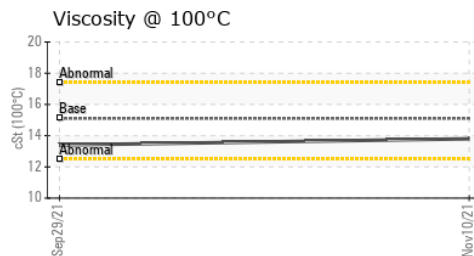
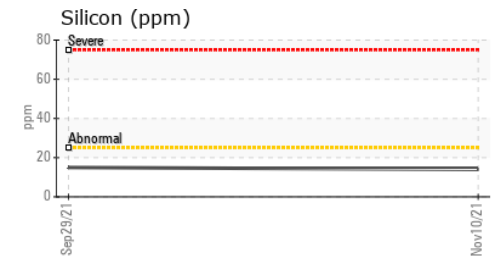
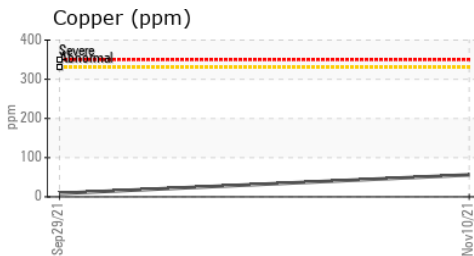
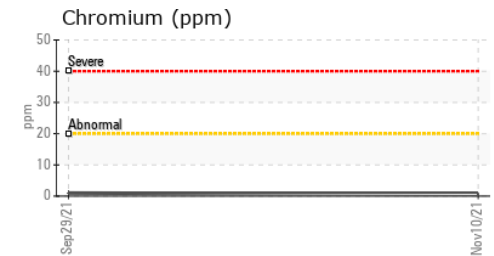
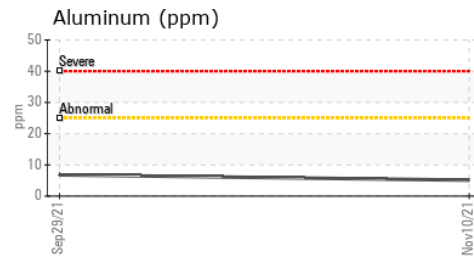
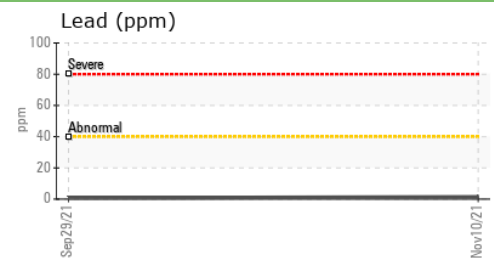
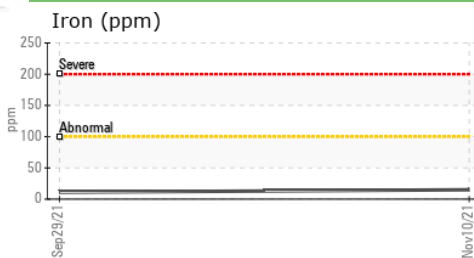
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.1	13.8	13.4

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0007612 **Received** : 15 Nov 2021  
**Lab Number** : 05400804 **Diagnosed** : 16 Nov 2021  
**Unique Number** : 9739954 **Diagnostician** : Doug Bogart  
**Test Package** : MOB1+

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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