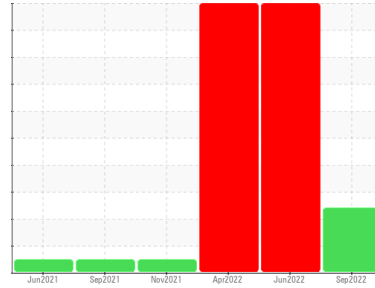




# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area  
**NOG SON [CONHER]**  
 Machine Id  
**PETERBILT TRC-109 AMSA**  
 Component  
**Front Diesel Engine**  
 Fluid  
**CHEVRON 15W40 (50 LTR)**

## DIAGNOSIS

### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. ( Customer Sample Comment: Looking for wear )

### Wear

All component wear rates are normal.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### 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>KL0010198</b>	KL0010197	KL0010174
Sample Date	Client Info	<b>11 Sep 2022</b>	11 Jun 2022	13 Apr 2022
Machine Age	kms	<b>1769318</b>	1733846	1713023
Oil Age	kms	<b>166700</b>	131228	110405
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>ABNORMAL</b>	SEVERE	SEVERE

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<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 >165	<b>120</b>	237	241
Chromium	ppm ASTM D5185m >5	<b>3</b>	13	17
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	2	3
Silver	ppm ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>14</b>	60	69
Lead	ppm ASTM D5185m >150	<b>1</b>	4	4
Copper	ppm ASTM D5185m >90	<b>5</b>	9	9
Tin	ppm ASTM D5185m >5	<b>&lt;1</b>	1	2
Antimony	ppm ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>3</b>	2	4
Barium	ppm ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	<b>5</b>	11	5
Manganese	ppm ASTM D5185m	<b>1</b>	4	4
Magnesium	ppm ASTM D5185m	<b>163</b>	882	973
Calcium	ppm ASTM D5185m	<b>3269</b>	1830	2111
Phosphorus	ppm ASTM D5185m	<b>901</b>	940	1096
Zinc	ppm ASTM D5185m	<b>1122</b>	1211	1394
Sulfur	ppm ASTM D5185m	<b>3710</b>	2931	2969

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >35	<b>46</b>	201	245
Sodium	ppm ASTM D5185m >50	<b>5</b>	21	25
Potassium	ppm ASTM D5185m >20	<b>6</b>	23	31

## INFRA-RED

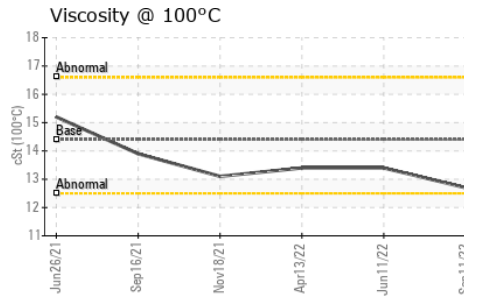
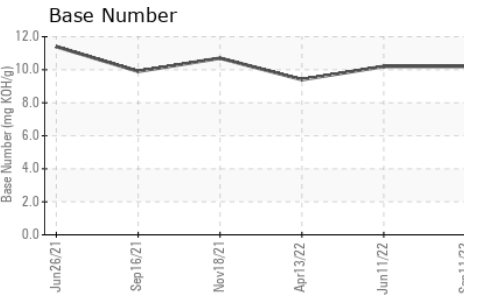
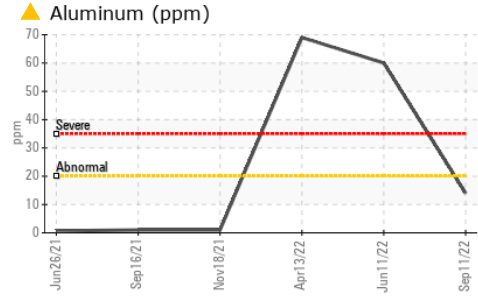
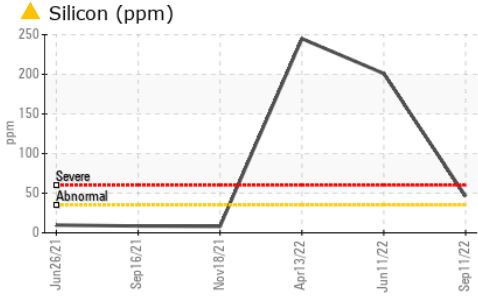
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >7.5	<b>0.6</b>	0.9	0.7
Nitration	Abs/cm *ASTM D7624 >20	<b>8.7</b>	10.1	8.4
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>20.2</b>	24.3	22.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>11.4</b>	13.4	12.3
Base Number (BN)	mg KOH/g ASTM D2896	<b>10.2</b>	10.2	9.4



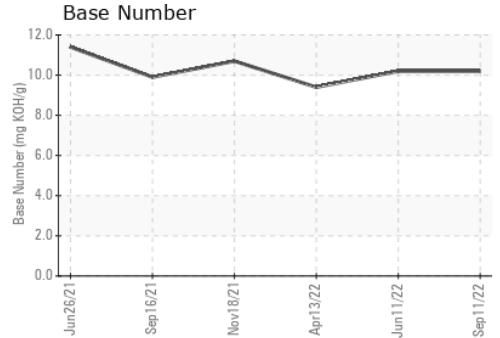
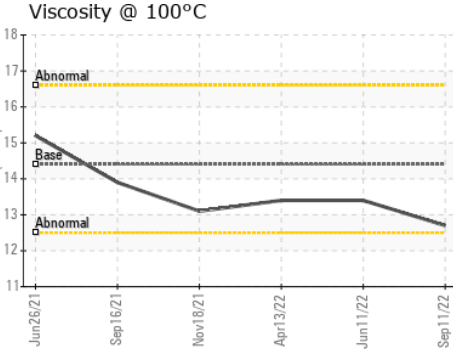
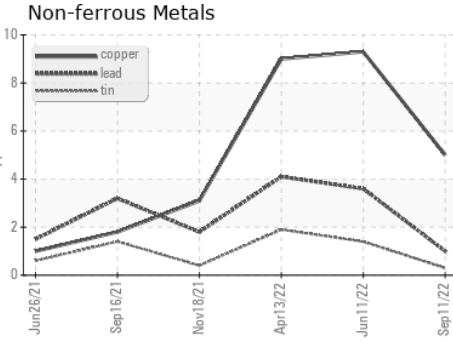
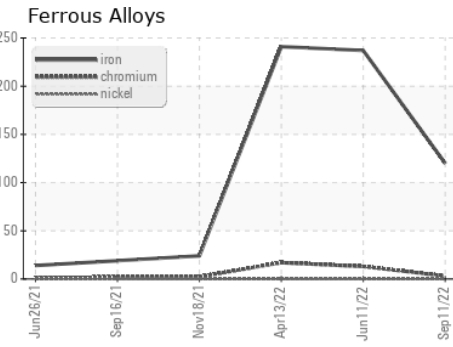
# OIL ANALYSIS REPORT



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>12.7</b>	13.4	13.4

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0010198  
**Lab Number** : 05687785  
**Unique Number** : 10207357  
**Test Package** : FLEET  
**Received** : 08 Nov 2022  
**Tested** : 09 Nov 2022  
**Diagnosed** : 10 Nov 2022 - Don Baldrige

**CONOR**  
 JUAREZ 348  
 HERMOSILLO,  
 MX 83140

Contact: EDUARDO GARCIA  
 egarcia.comsa@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)

T: (526)622-1581 x:81

F: x: