



# OIL ANALYSIS REPORT

Sample Rating Trend

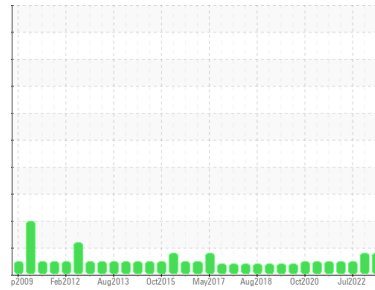
ISO



Machine Id  
**2007 PETERBILT 9627H**

Component  
**Hydraulic System**

Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (50 GAL)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	<b>KL0012919</b>	KL0012171	KL0008996	
Sample Date	Client Info	<b>06 Sep 2023</b>	03 May 2023	08 Jul 2022	
Machine Age	mls	Client Info	<b>9722</b>	376644	360700
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A	
Sample Status		<b>ATTENTION</b>	ATTENTION	NORMAL	

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	<b>4</b>	4	4
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	9	7
Lead	ppm	ASTM D5185m >10	<b>2</b>	2	2
Copper	ppm	ASTM D5185m >75	<b>10</b>	10	10
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 151	<b>340</b>	307	331
Barium	ppm	ASTM D5185m 0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 250	<b>55</b>	54	56
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 0	<b>395</b>	421	394
Calcium	ppm	ASTM D5185m 2046	<b>1373</b>	1430	1445
Phosphorus	ppm	ASTM D5185m 1043	<b>892</b>	978	960
Zinc	ppm	ASTM D5185m 943	<b>1059</b>	1150	1113
Sulfur	ppm	ASTM D5185m 5012	<b>3483</b>	4338	4084

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >20	<b>6</b>	8	6
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	2	1

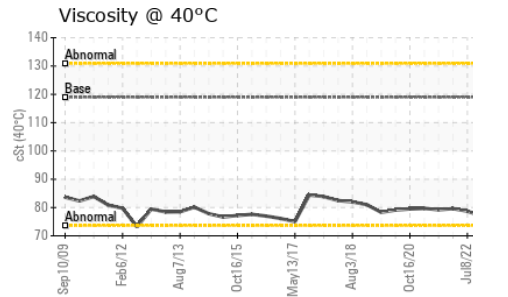
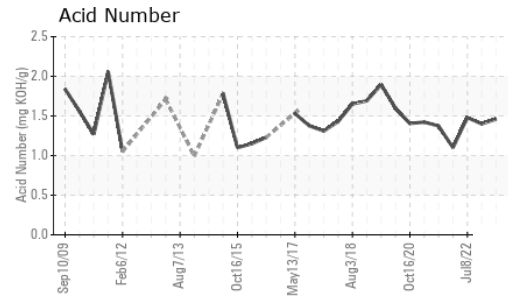
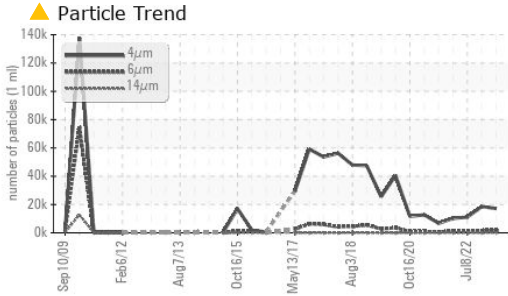
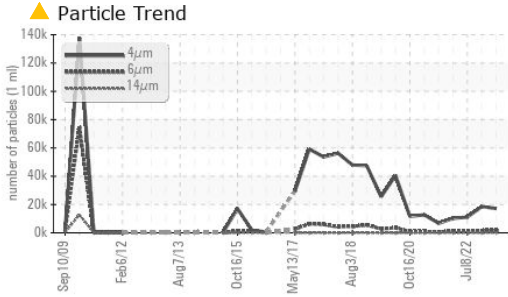
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>17176</b>	18544	11121
Particles >6µm	ASTM D7647 >1300	<b>▲ 1663</b>	▲ 1644	1209
Particles >14µm	ASTM D7647 >160	<b>22</b>	20	42
Particles >21µm	ASTM D7647 >40	<b>3</b>	4	10
Particles >38µm	ASTM D7647 >10	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >17/14	<b>▲ 18/12</b>	▲ 18/11	17/13

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.46</b>	1.40	1.48

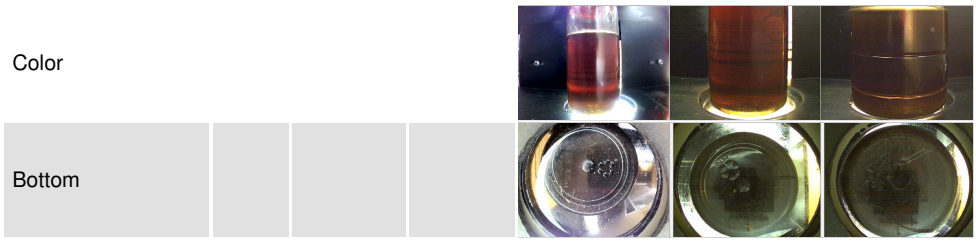
# OIL ANALYSIS REPORT



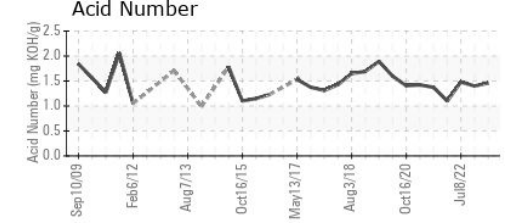
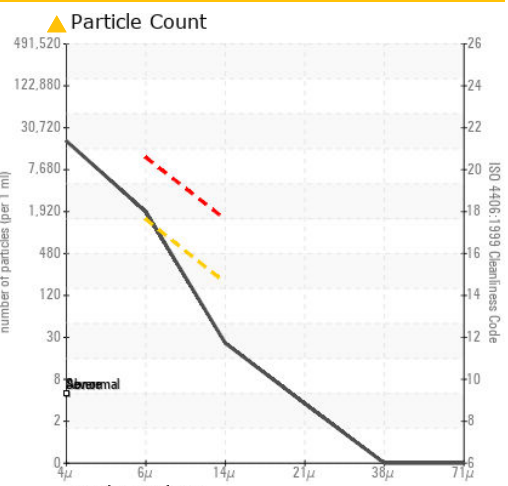
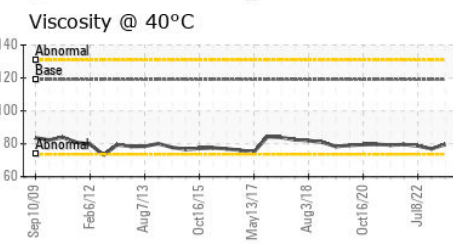
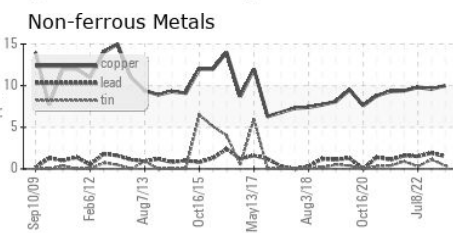
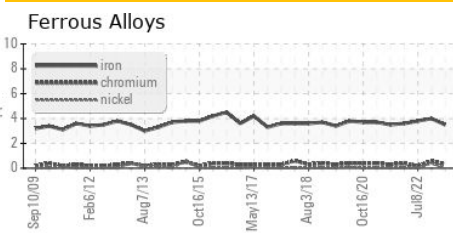
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	119	79.6	77.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0012919 **Received** : 29 Sep 2023  
**Lab Number** : 05965352 **Diagnosed** : 02 Oct 2023  
**Unique Number** : 10671903 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**VILLAGE OF RUIDOSO**  
 313 CREE MEADOWS DR  
 RUIDOSO, NM  
 US 88355  
 Contact: JERRY PARSONS  
 jerryparsons@ruidoso-nm.gov  
 T: (575)257-1702  
 F: x:

Certificate L2367  
 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)