



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id  
**PETERBILT 7708H**  
Component  
**Hydraulic System**  
Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (60 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0013883</b>	KL0012920	KL0007901
Sample Date		Client Info		<b>14 Feb 2024</b>	06 Sep 2023	20 Jan 2022
Machine Age	mls	Client Info		<b>51678</b>	48511	45889
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changed
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>17</b>	20	22
Chromium	ppm	ASTM D5185m	>10	<b>15</b>	18	18
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>6</b>	2	8
Lead	ppm	ASTM D5185m	>10	<b>3</b>	3	4
Copper	ppm	ASTM D5185m	>75	<b>25</b>	31	33
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

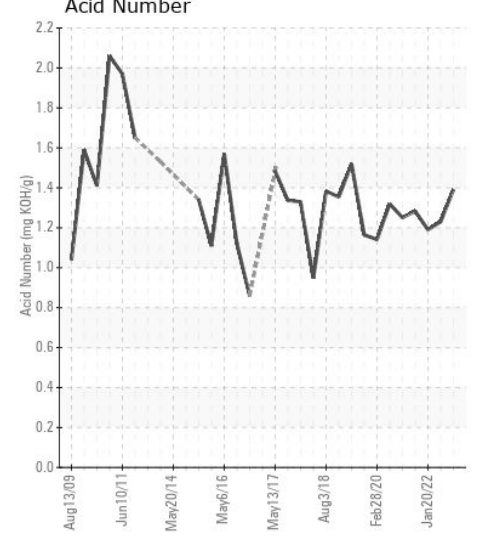
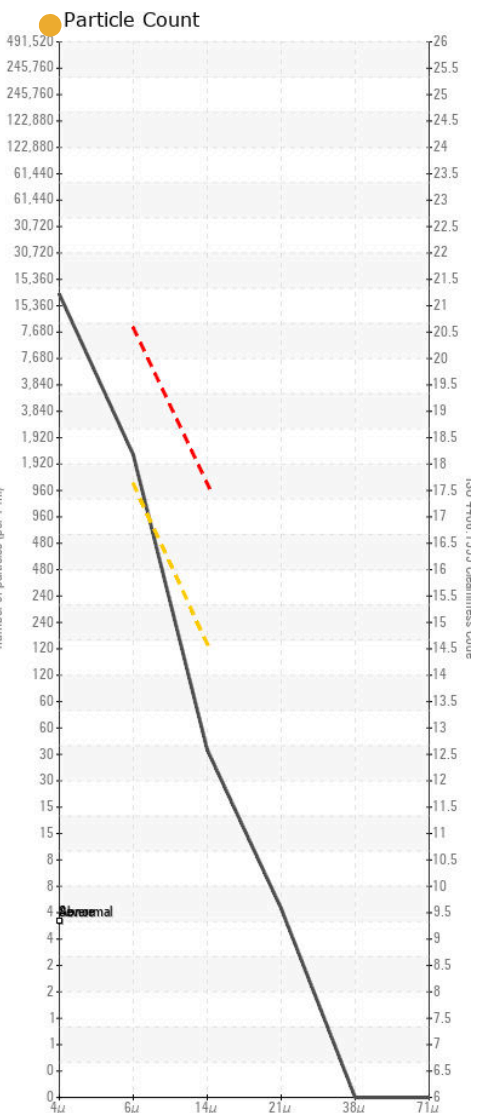
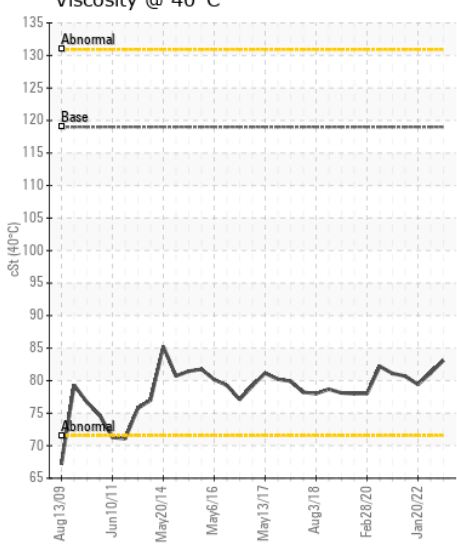
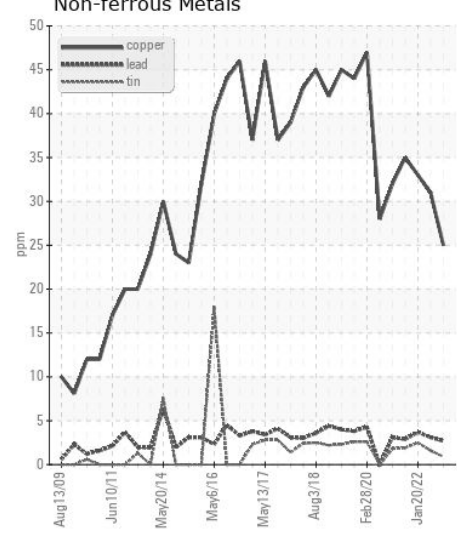
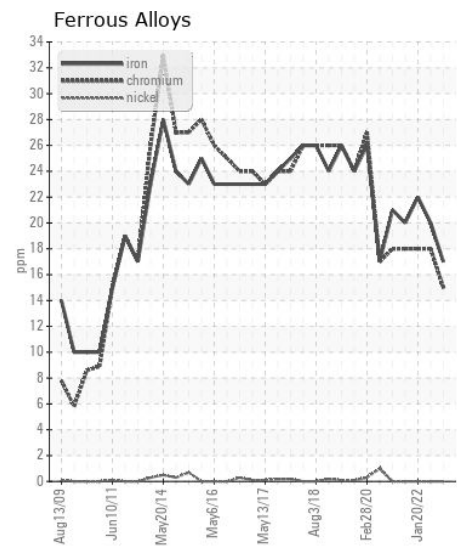
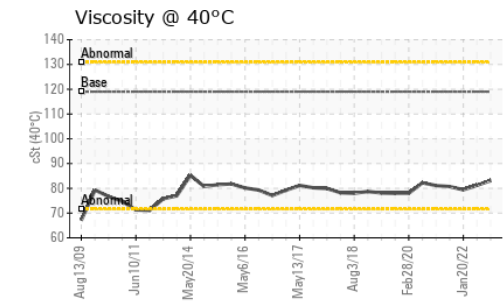
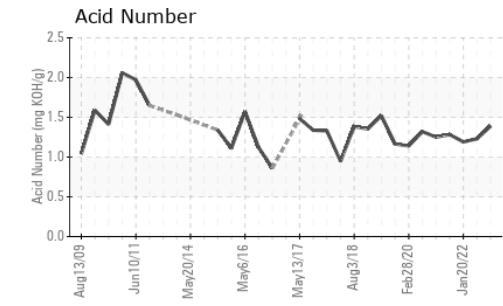
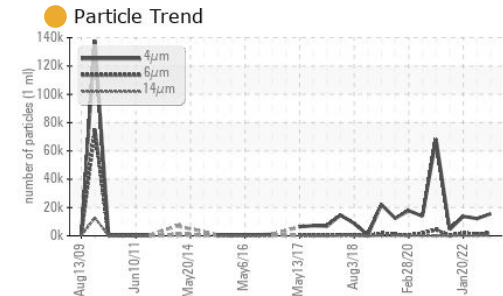
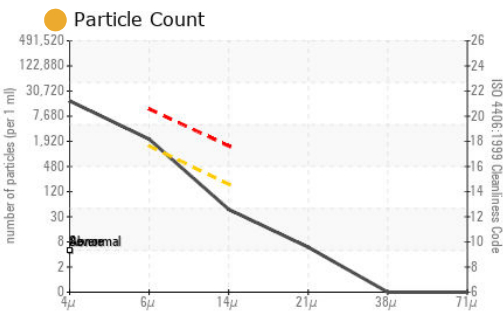
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>17</b>	19	19
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>15532</b>	12172	13710
Particles >6µm		ASTM D7647	>1300	<b>1896</b>	1304	1921
Particles >14µm		ASTM D7647	>160	<b>40</b>	22	85
Particles >21µm		ASTM D7647	>40	<b>5</b>	3	10
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>17/14	<b>18/12</b>	18/12	18/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>4</b>	4	4
Boron	ppm	ASTM D5185m	151	<b>123</b>	198	171
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	250	<b>62</b>	60	55
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>765</b>	683	538
Calcium	ppm	ASTM D5185m	2046	<b>1359</b>	1324	1281
Phosphorus	ppm	ASTM D5185m	1043	<b>1094</b>	1007	929
Zinc	ppm	ASTM D5185m	943	<b>1349</b>	1191	1121
Sulfur	ppm	ASTM D5185m	5012	<b>3732</b>	3631	3240
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.39</b>	1.23	1.19
Visc @ 40°C	cSt	ASTM D445	119	<b>83.1</b>	81.2	79.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013883  
**Lab Number** : 06105176  
**Unique Number** : 10903406  
**Test Package** : MOB 2  
**Received** : 29 Feb 2024  
**Tested** : 01 Mar 2024  
**Diagnosed** : 04 Mar 2024 - Don Baldrige

**VILLAGE OF RUIDOSO**  
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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)