



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area  
**[CONHER]**  
Machine Id  
**CATERPILLAR Pisa 4 Aux-1 - Pacifico Industrial**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (30 LTR)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0013448</b>	KL0013447	---
Sample Date		Client Info		<b>21 Dec 2023</b>	13 Dec 2023	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>3</b>	0	---
Filter Age	hrs	Client Info		<b>3</b>	0	---
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	---
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	---
Sample Status				<b>ATTENTION</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>105	<b>10</b>	13	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	1	---
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>140	<b>4</b>	1	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

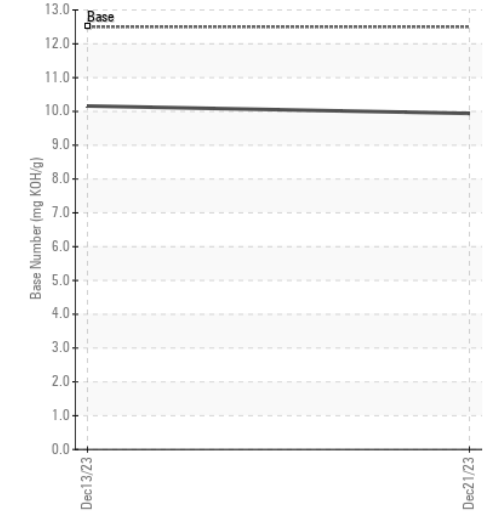
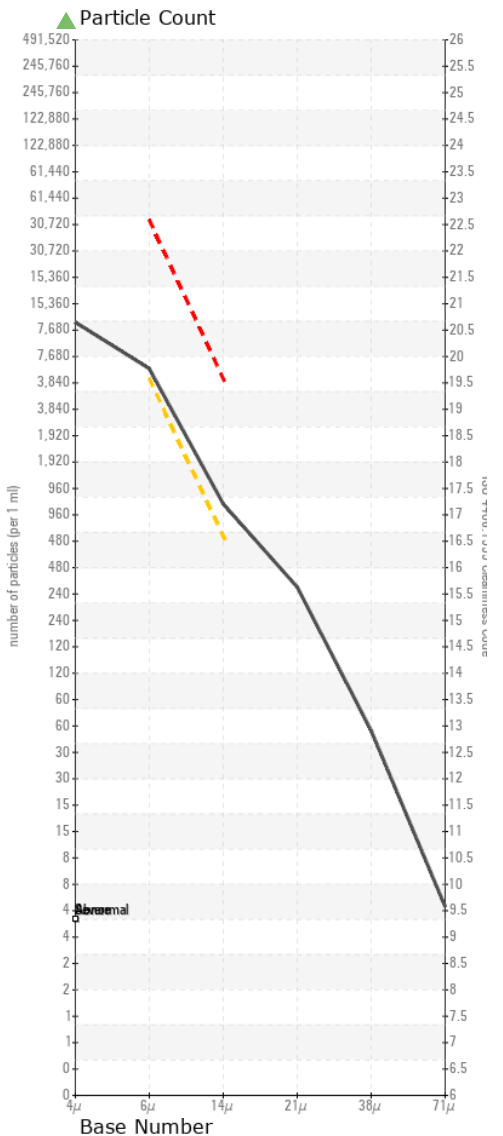
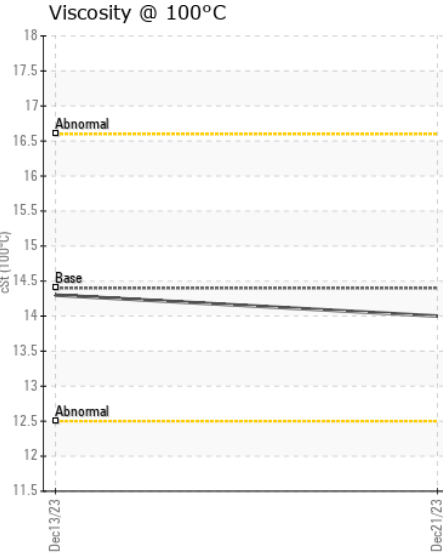
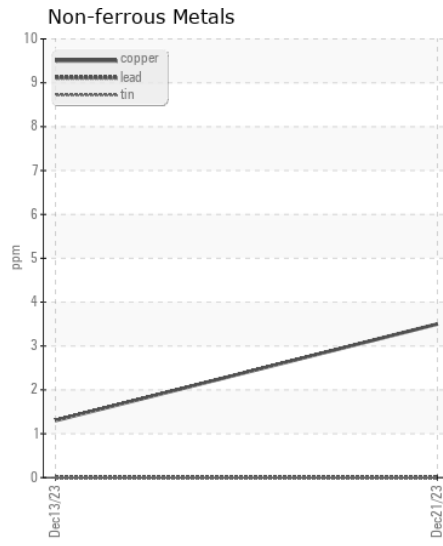
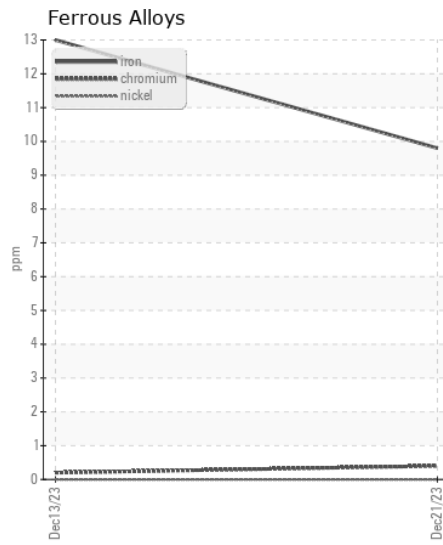
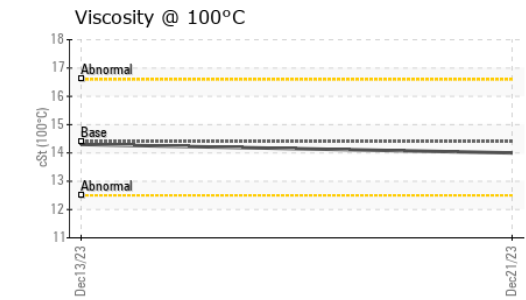
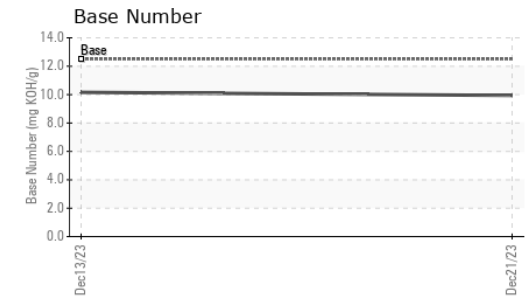
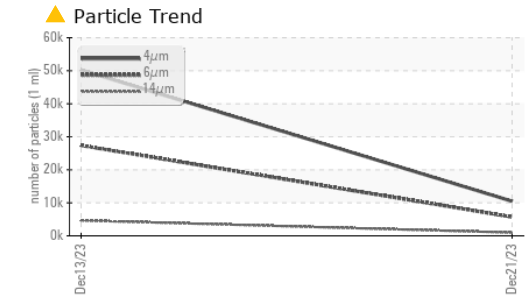
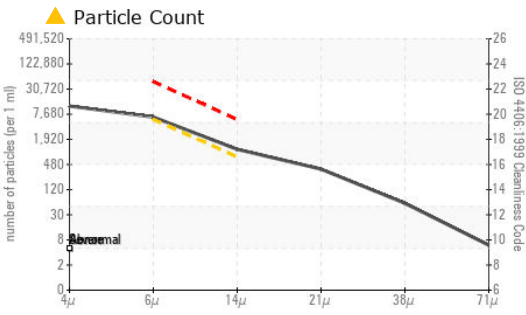
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	14	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.1</b>	3.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>14.7</b>	13.6	---
Particles >4µm		ASTM D7647		<b>10475</b>	50241	---
Particles >6µm		ASTM D7647	>5000	<b>▲ 5706</b>	▲ 27369	---
Particles >14µm		ASTM D7647	>640	<b>▲ 971</b>	▲ 4658	---
Particles >21µm		ASTM D7647	>160	<b>▲ 327</b>	▲ 1569	---
Particles >38µm		ASTM D7647	>40	<b>▲ 50</b>	▲ 242	---
Particles >71µm		ASTM D7647	>10	<b>5</b>	▲ 25	---
Oil Cleanliness		ISO 4406 (c)	>19/16	<b>▲ 20/17</b>	▲ 22/19	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

## 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.

Sodium	ppm	ASTM D5185m		<b>3</b>	5	---
Boron	ppm	ASTM D5185m	151	<b>41</b>	3	---
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	250	<b>32</b>	19	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m	0	<b>916</b>	930	---
Calcium	ppm	ASTM D5185m	2046	<b>1608</b>	1602	---
Phosphorus	ppm	ASTM D5185m	1043	<b>938</b>	952	---
Zinc	ppm	ASTM D5185m	943	<b>1100</b>	1121	---
Sulfur	ppm	ASTM D5185m	5012	<b>3390</b>	3477	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.4</b>	7.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	<b>9.94</b>	10.16	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.0</b>	14.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013448 **Received** : 09 Jan 2024  
**Lab Number** : 06055992 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10821941 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

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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