



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**[646159 DIPRO]**  
Machine Id  
**CATERPILLAR 972 2686**  
Component  
**Rear Axle**  
Fluid  
**CAT TDTO 30W (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP452311</b>	VCP403879	---
Sample Date		Client Info		<b>28 Dec 2023</b>	19 Jan 2023	---
Machine Age	hrs	Client Info		<b>12902</b>	10401	---
Oil Age	hrs	Client Info		<b>500</b>	2000	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>60</b>	21	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	4	---
Copper	ppm	ASTM D5185m	>50	<b>9</b>	1	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

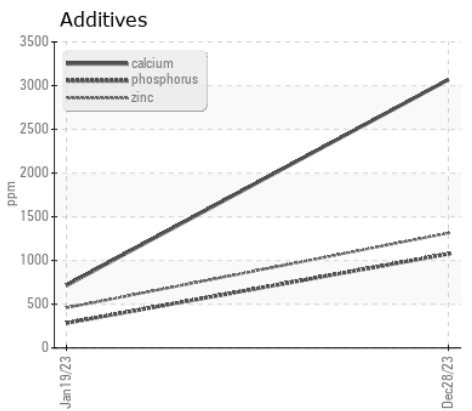
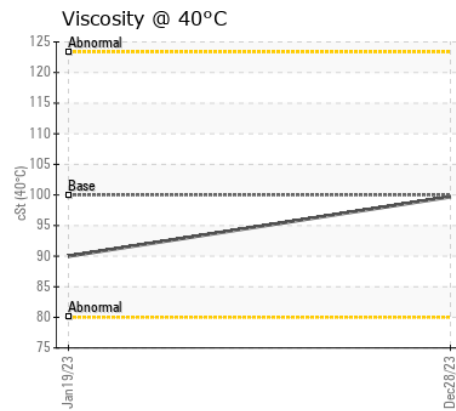
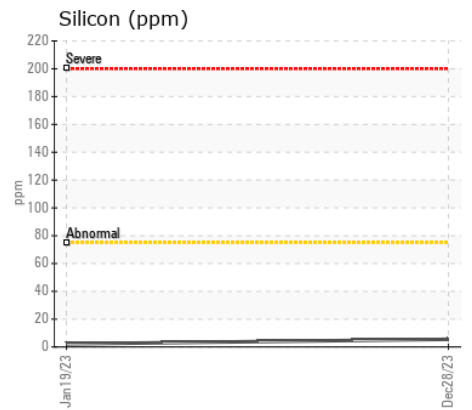
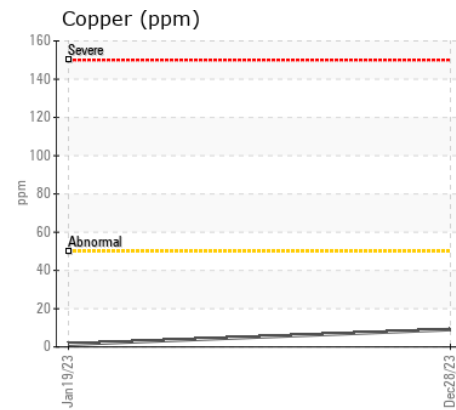
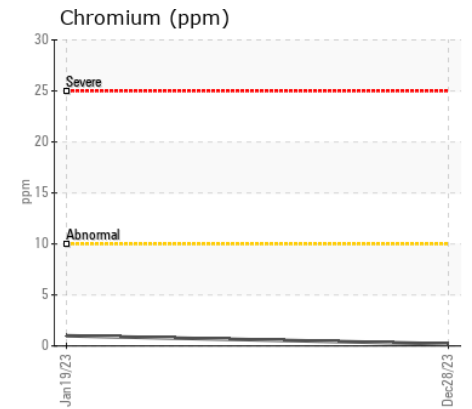
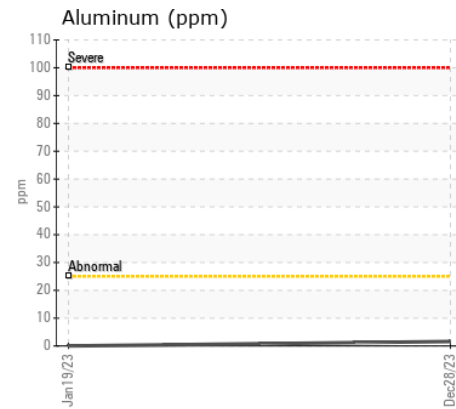
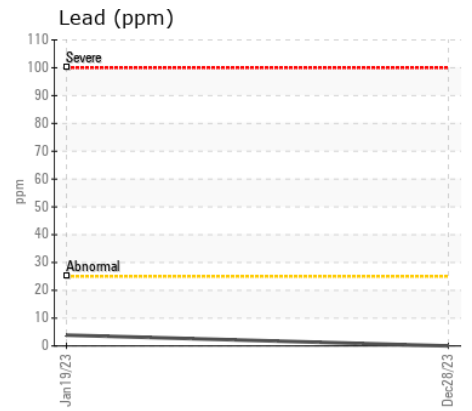
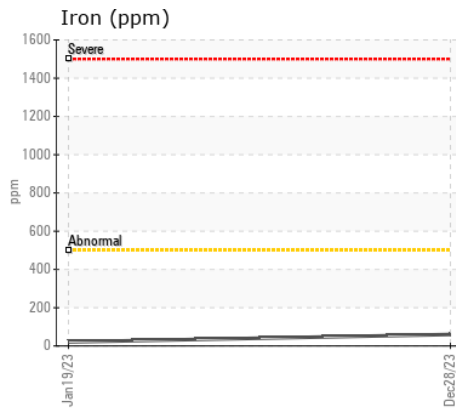
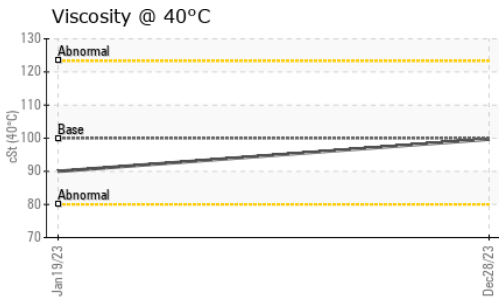
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>6</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	23	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	6	---
Boron	ppm	ASTM D5185m		<b>0</b>	<1	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>11</b>	20	---
Calcium	ppm	ASTM D5185m	2980	<b>3068</b>	714	---
Phosphorus	ppm	ASTM D5185m	1100	<b>1075</b>	284	---
Zinc	ppm	ASTM D5185m	1270	<b>1313</b>	458	---
Sulfur	ppm	ASTM D5185m		<b>7787</b>	1709	---
Visc @ 40°C	cSt	ASTM D445	100	<b>99.7</b>	90.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP452311 **Received** : 10 Jan 2024  
**Lab Number** : 06057007 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822956 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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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)