



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[646159 DIPRO]
Machine Id
CATERPILLAR 972 2686
Component
Front Axle
Fluid
VOLVO SUPER TRANSMISSION OIL SAE 30 (--- GAL)

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		VCP452310	VCP383065	---
Sample Date		Client Info		28 Dec 2023	19 Jan 2023	---
Machine Age	hrs	Client Info		12902	10401	---
Oil Age	hrs	Client Info		0	2000	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Not Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	410	40	---
Chromium	ppm	ASTM D5185m	>10	2	1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>25	6	<1	---
Lead	ppm	ASTM D5185m	>25	0	4	---
Copper	ppm	ASTM D5185m	>50	▲ 62	2	---
Tin	ppm	ASTM D5185m	>10	0	1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

There is no indication of any contamination in the oil.

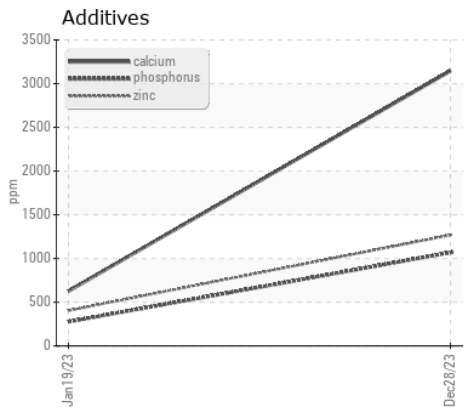
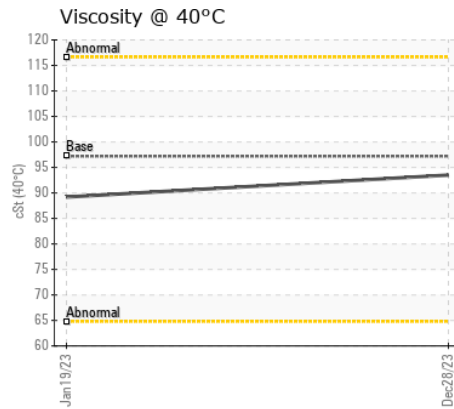
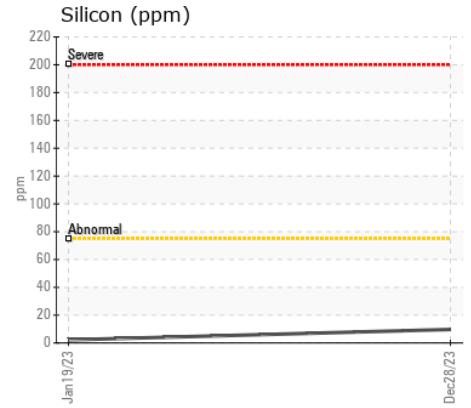
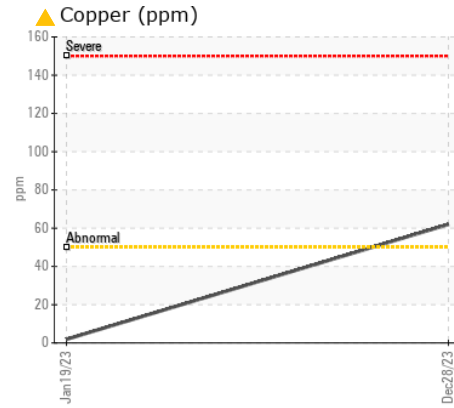
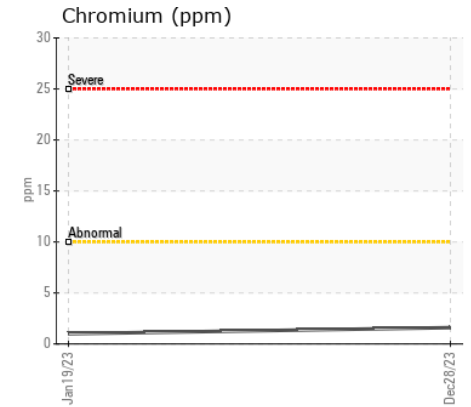
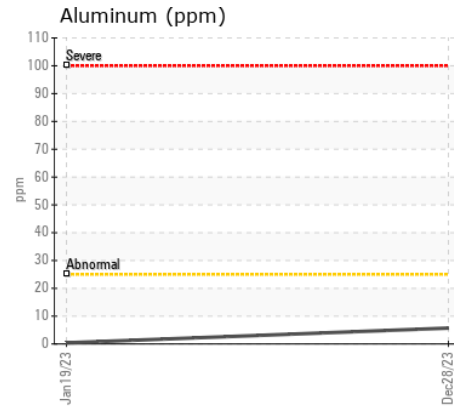
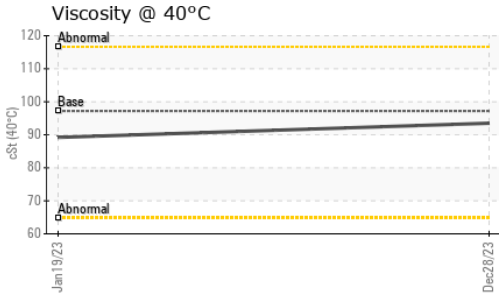
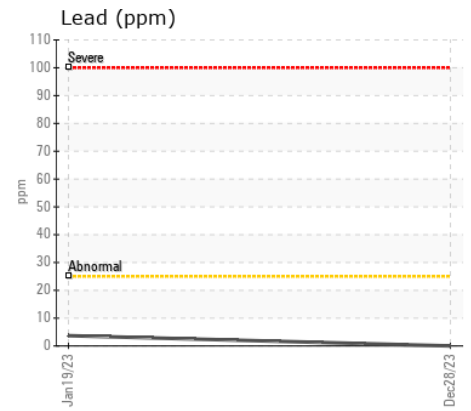
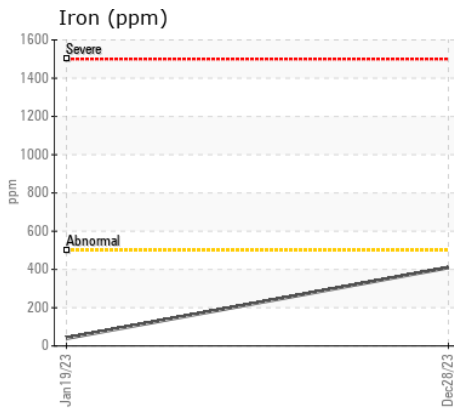
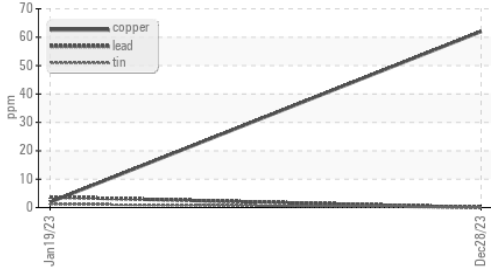
Silicon	ppm	ASTM D5185m	>75	10	2	---
Potassium	ppm	ASTM D5185m	>20	2	23	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	LIGHT	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	5	---
Boron	ppm	ASTM D5185m	1.9	0	0	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.0	0	<1	---
Manganese	ppm	ASTM D5185m	0.0	2	<1	---
Magnesium	ppm	ASTM D5185m	67	16	20	---
Calcium	ppm	ASTM D5185m	2943	3146	628	---
Phosphorus	ppm	ASTM D5185m	1122	1068	276	---
Zinc	ppm	ASTM D5185m	1358	1268	404	---
Sulfur	ppm	ASTM D5185m	7684	7886	1902	---
Visc @ 40°C	cSt	ASTM D445	97.2	93.5	89.2	---

▲ Non-ferrous Metals



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP452310 **Received** : 10 Jan 2024
Lab Number : 06057009 **Diagnosed** : 11 Jan 2024
Unique Number : 10822958 **Diagnostician** : Sean Felton
Test Package : MOB 1

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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)