VOLVO — OIL ANALYSIS REPORT

	Status
WEAR	**ABNORMAL**
CONTAMINATION	**ABNORMAL**
FLUID CONDITION	**NORMAL**

Machine Id
VOLVO A45G FS 352634
Component
Wet Disc Brake
Fluid
VOLVO WET BRAKE TRANSAXLE OIL (--- 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		**VCP436119**	---	---
Sample Date		Client Info		**05 Jan 2024**	---	---
Machine Age	hrs	Client Info		**2399**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Filter Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Filter Changed		Client Info		**Changed**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR

The iron level is abnormal. The copper level is abnormal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	▲ **29**	---	---
Chromium	ppm	ASTM D5185m	>10	**<1**	---	---
Nickel	ppm	ASTM D5185m	>10	**6**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>10	**2**	---	---
Lead	ppm	ASTM D5185m	>10	**<1**	---	---
Copper	ppm	ASTM D5185m	>75	▲ **253**	---	---
Tin	ppm	ASTM D5185m	>10	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---

CONTAMINATION

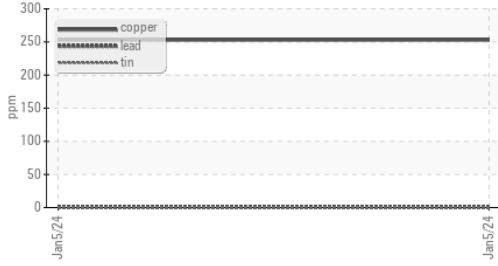Elemental level of silicon (Si) above normal indicating ingress of seal material.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>20	▲ **20**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---
Water		WC Method	>0.1	**NEG**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**LIGHT**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	---	---

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		**3**	---	---
Boron	ppm	ASTM D5185m	100	**129**	---	---
Barium	ppm	ASTM D5185m	0	**7**	---	---
Molybdenum	ppm	ASTM D5185m	0	**<1**	---	---
Manganese	ppm	ASTM D5185m		**2**	---	---
Magnesium	ppm	ASTM D5185m	0	**13**	---	---
Calcium	ppm	ASTM D5185m	3800	**3927**	---	---
Phosphorus	ppm	ASTM D5185m	1200	**1261**	---	---
Zinc	ppm	ASTM D5185m	1500	**1551**	---	---
Sulfur	ppm	ASTM D5185m	6500	**5444**	---	---
Visc @ 40°C	cSt	ASTM D445	52.0	**41.1**	---	---

Non-ferrous Metals
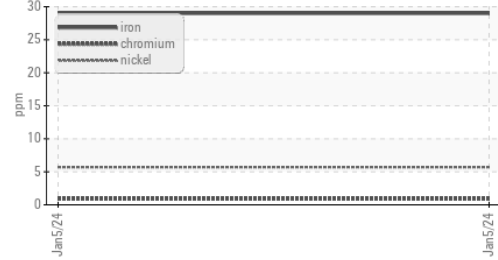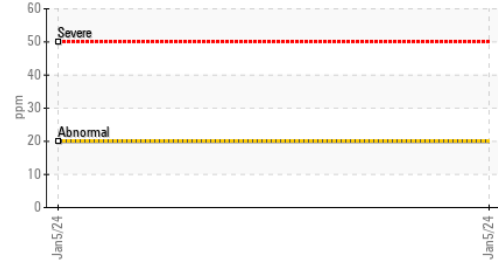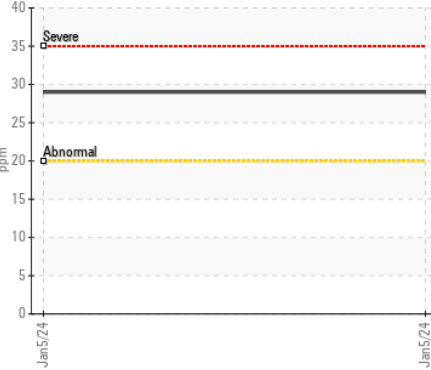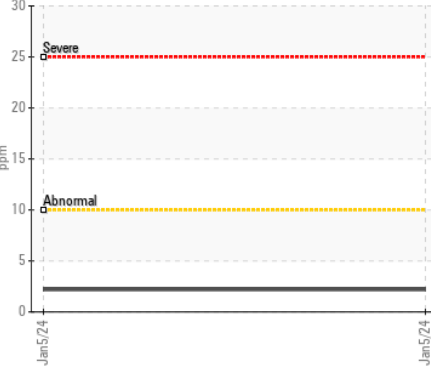
Legend: copper, lead, tin

Iron (ppm)

Severe — 35
Abnormal — 20

Lead (ppm)

Severe — 25
Abnormal — 10

Ferrous Alloys

Legend: iron, chromium, nickel

Aluminum (ppm)

Severe — 25
Abnormal — 10

Chromium (ppm)

Severe — 25
Abnormal — 10

Silicon (ppm)

Severe — 50
Abnormal — 20

Copper (ppm)

Severe — 200
Abnormal — 75

Silicon (ppm)

Severe — 50
Abnormal — 20

Viscosity @ 40°C

Abnormal — 57
Base — 52
Abnormal — 41

Viscosity @ 40°C

Abnormal — 57
Base — 52
Abnormal — 41

Additives

Legend: calcium, phosphorus, zinc
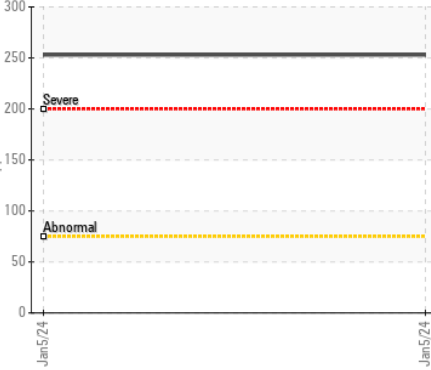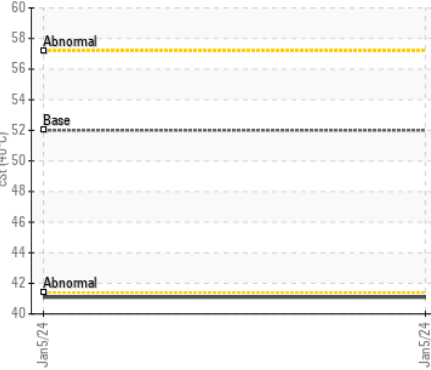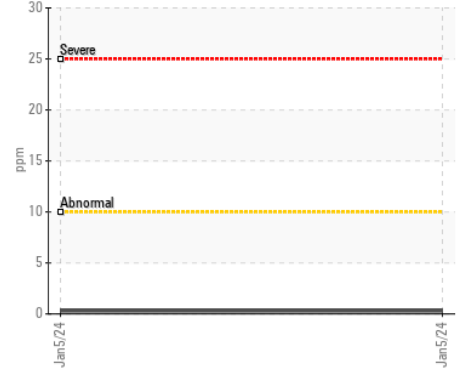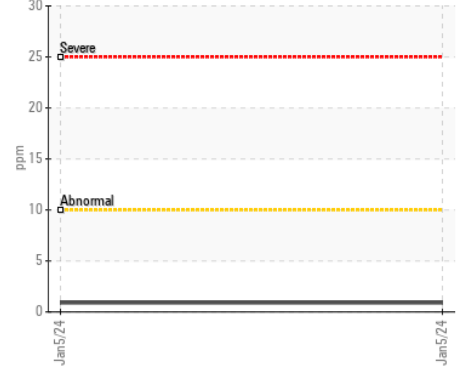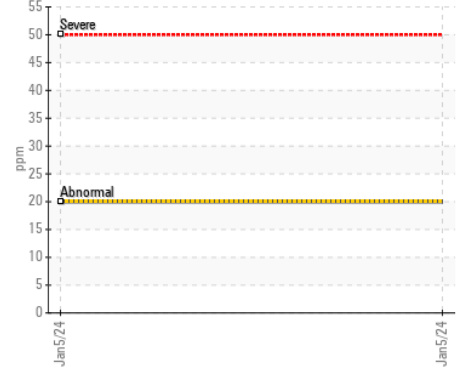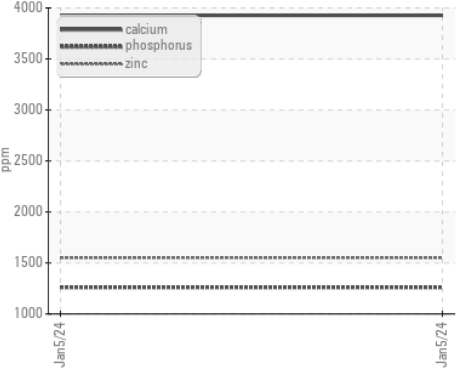
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513	**ALTA EQUIPMENT COMPANY**
Sample No. : VCP436119 **Recieved** : 08 Jan 2024	5151 DR MARTIN LUTHER KING BLVD
Lab Number : 06054366 **Diagnosed** : 10 Jan 2024	FORT MYERS, FL
Unique Number : 10820315 **Diagnostician** : Jonathan Hester	US 33905
Test Package : MOB 1	Contact: TODD LARK

ANAB ACCREDITED TESTING LABORATORY
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)

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