



# OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area  
**[SWA450923-20 M SQUAR]**  
 Machine Id  
**TAKEUCHI TB235-2 123601919**  
 Component  
**Rear Right Final Drive**  
 Fluid  
**VOLVO (--- GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## WEAR

Gear wear is indicated.

## CONTAMINATION

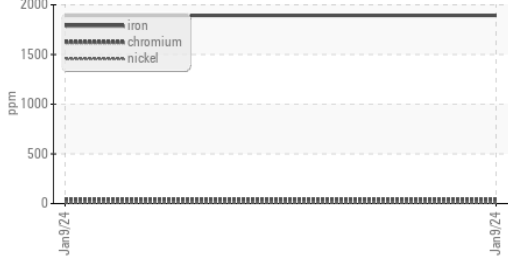
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

## FLUID CONDITION

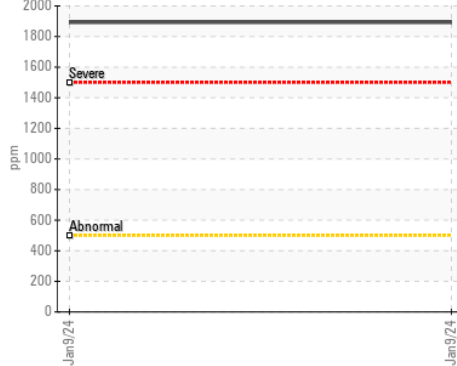
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP434295	---	---
Sample Date		Client Info		09 Jan 2024	---	---
Machine Age	hrs	Client Info		1720	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>500	1893	---	---
Chromium	ppm	ASTM D5185m	>10	36	---	---
Nickel	ppm	ASTM D5185m	>10	8	---	---
Titanium	ppm	ASTM D5185m		20	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	22	---	---
Lead	ppm	ASTM D5185m	>25	<1	---	---
Copper	ppm	ASTM D5185m	>50	11	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	298	---	---
Potassium	ppm	ASTM D5185m	>20	5	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		21	---	---
Barium	ppm	ASTM D5185m		15	---	---
Molybdenum	ppm	ASTM D5185m		20	---	---
Manganese	ppm	ASTM D5185m		26	---	---
Magnesium	ppm	ASTM D5185m		14	---	---
Calcium	ppm	ASTM D5185m		3953	---	---
Phosphorus	ppm	ASTM D5185m		617	---	---
Zinc	ppm	ASTM D5185m		776	---	---
Sulfur	ppm	ASTM D5185m		3459	---	---
Visc @ 40°C	cSt	ASTM D445		93.8	---	---

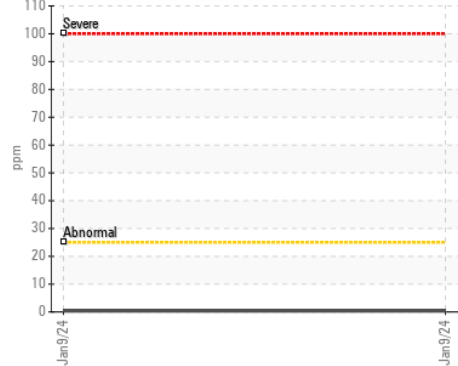
**Ferrous Alloys**



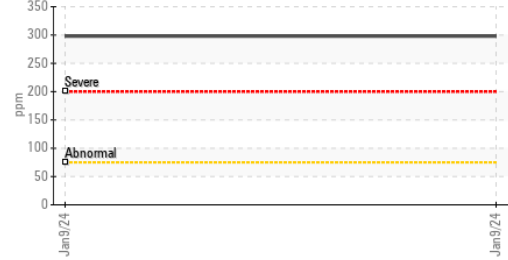
**Iron (ppm)**



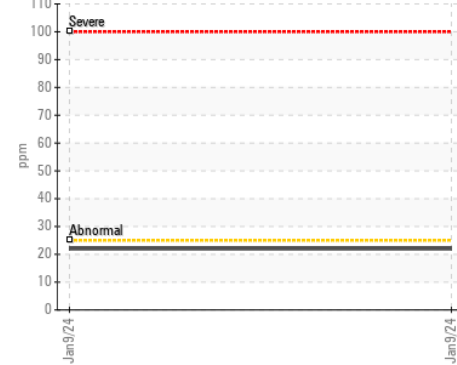
**Lead (ppm)**



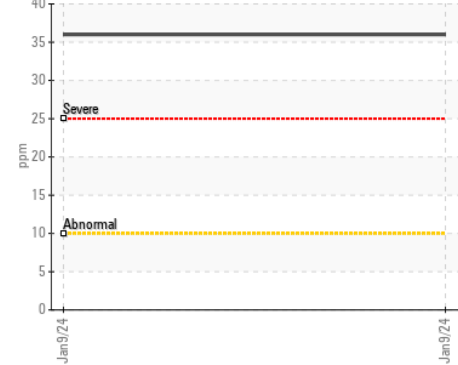
**Silicon (ppm)**



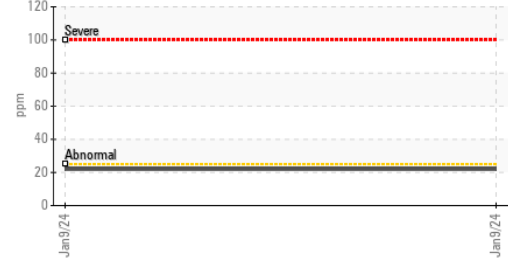
**Aluminum (ppm)**



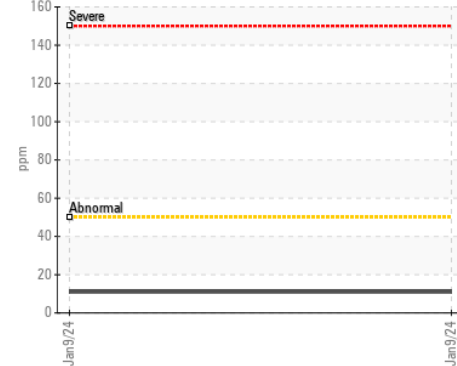
**Chromium (ppm)**



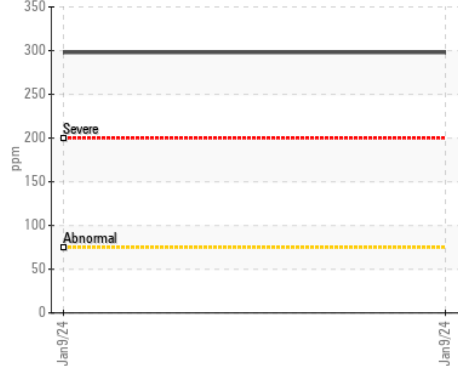
**Aluminum (ppm)**



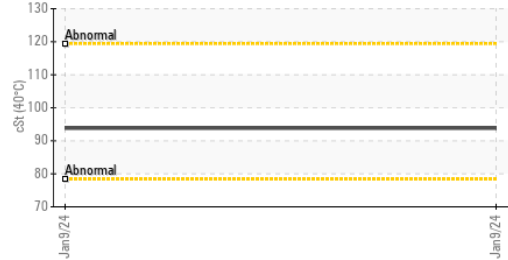
**Copper (ppm)**



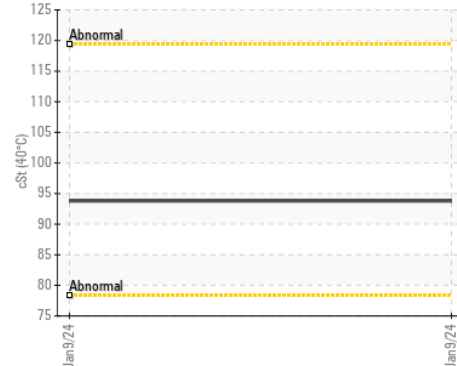
**Silicon (ppm)**



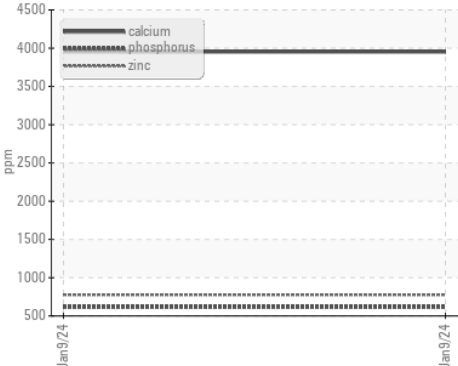
**Viscosity @ 40°C**



**Viscosity @ 40°C**



**Additives**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP434295 **Received** : 12 Jan 2024  
**Lab Number** : 06059629 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831011 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 1

**ALTA EQUIPMENT COMPANY**  
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 US 33905  
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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)