



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**[74854 LAKE CONWAY]**  
 Machine Id  
**TAKEUCHI TB230R 130008591**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP445668	VCP368647	---
Sample Date		Client Info		19 Feb 2024	21 Oct 2022	---
Machine Age	hrs	Client Info		1006	349	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ATTENTION	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	38	72	---
Chromium	ppm	ASTM D5185m	>20	<1	2	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	3	---
Lead	ppm	ASTM D5185m	>40	<1	4	---
Copper	ppm	ASTM D5185m	>330	4	15	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

### CONTAMINATION

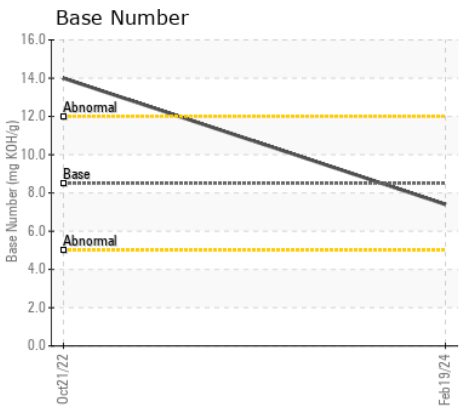
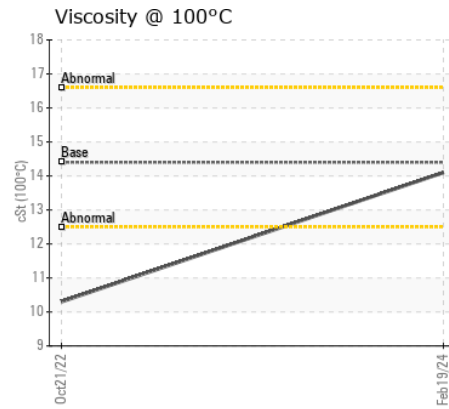
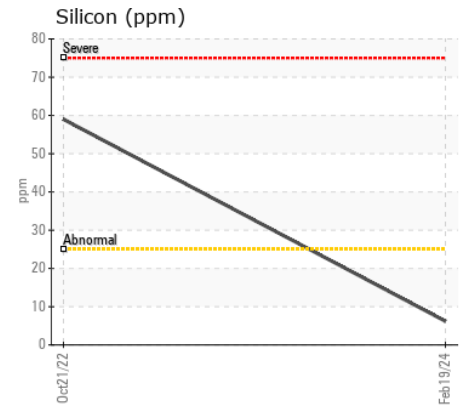
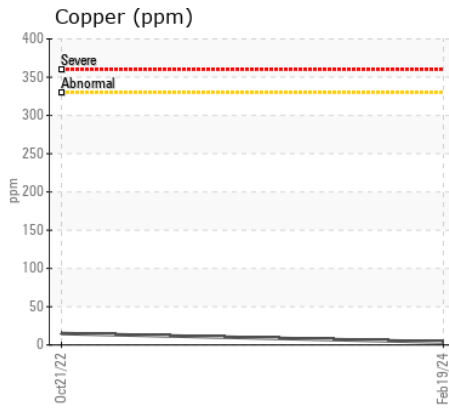
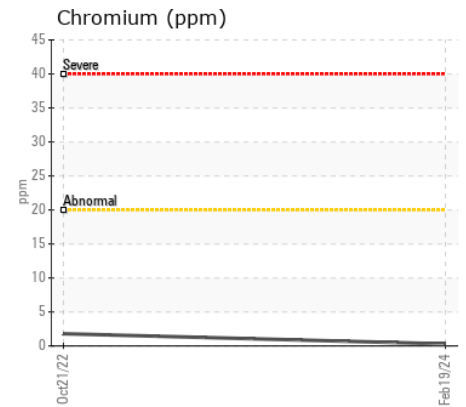
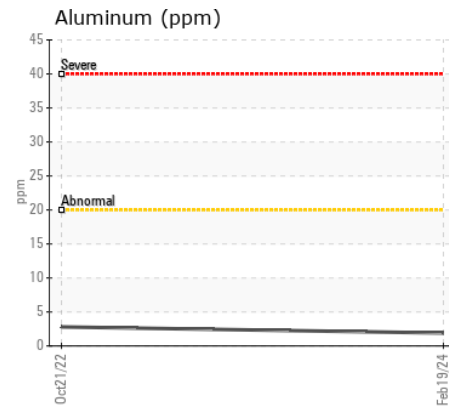
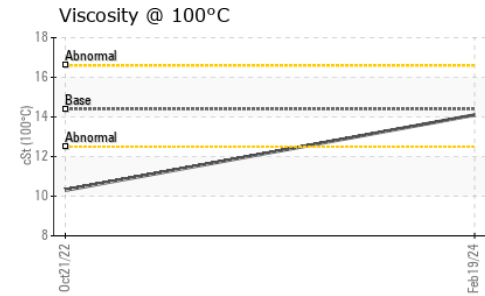
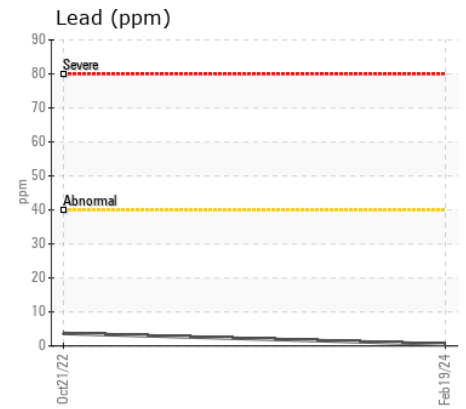
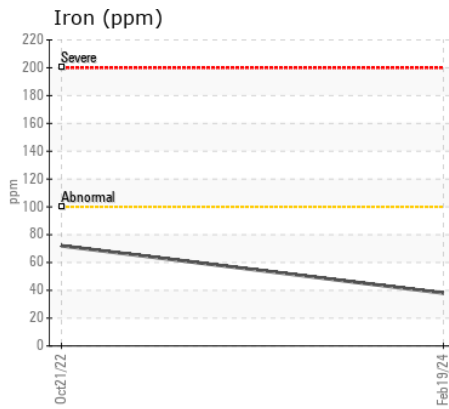
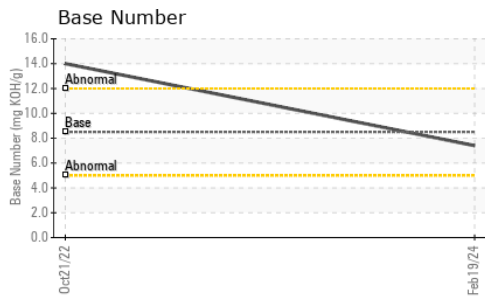
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	59	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Fuel		WC Method	>5	<1.0	0.3	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	18.1	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
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 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	>158	4	16	---
Boron	ppm	ASTM D5185m	250	10	33	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	12	105	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	450	89	14	---
Calcium	ppm	ASTM D5185m	3000	2219	4137	---
Phosphorus	ppm	ASTM D5185m	1150	846	1046	---
Zinc	ppm	ASTM D5185m	1350	977	1373	---
Sulfur	ppm	ASTM D5185m	4250	3212	7265	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	10.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.4	14.0	---
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	▲ 10.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP445668  
**Lab Number** : 06098210  
**Unique Number** : 10896440  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Received** : 23 Feb 2024  
**Tested** : 25 Feb 2024  
**Diagnosed** : 25 Feb 2024 - Wes Davis

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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)