



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[701908 MOSAIC]

Machine Id

TAKEUCHI TB2150 514601123

Component

Diesel Engine

Fluid

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP437945	VCP408277	---
Sample Date		Client Info		17 Apr 2024	30 Jun 2023	---
Machine Age	hrs	Client Info		967	477	---
Oil Age	hrs	Client Info		500	80	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	19	26	---
Chromium	ppm	ASTM D5185m	>20	1	2	---
Nickel	ppm	ASTM D5185m	>4	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	4	3	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	4	11	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

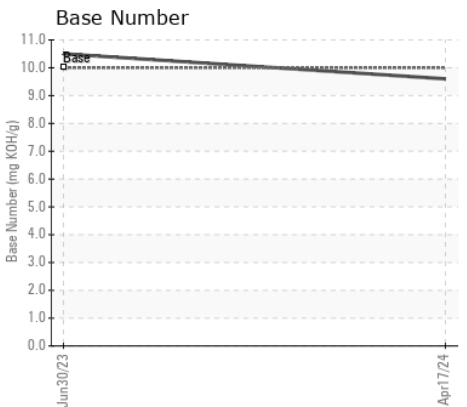
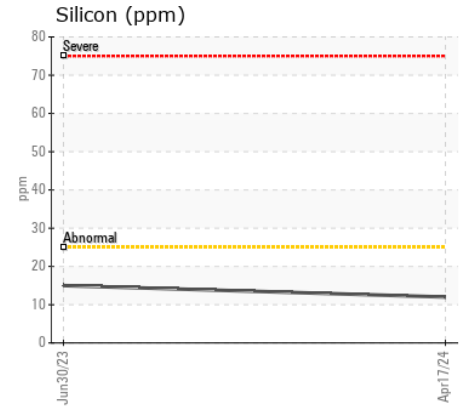
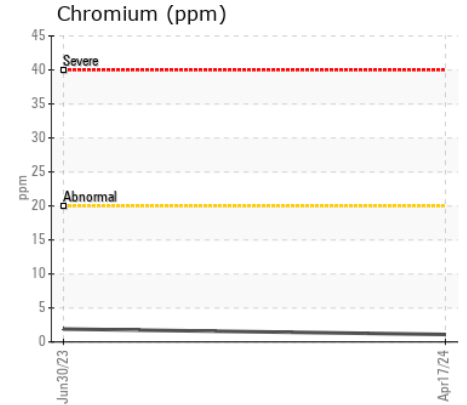
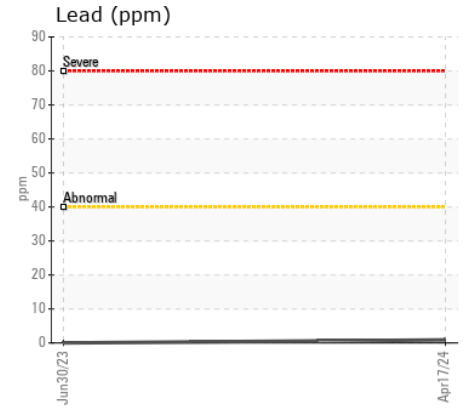
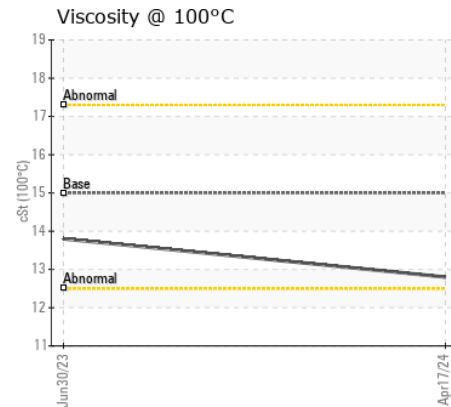
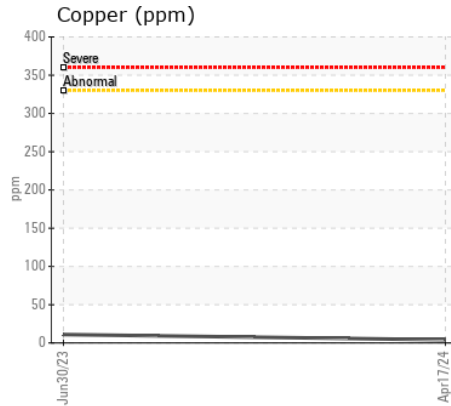
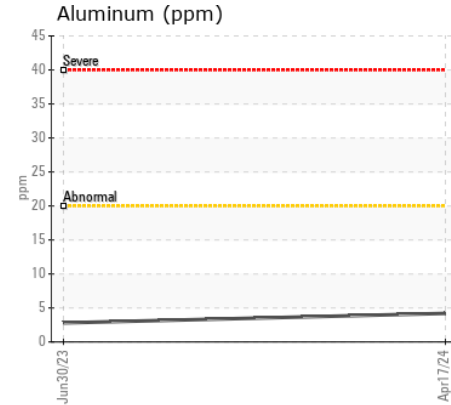
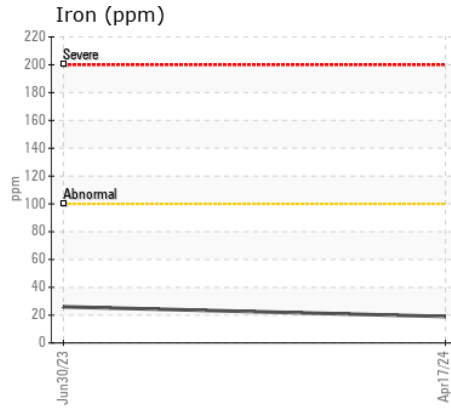
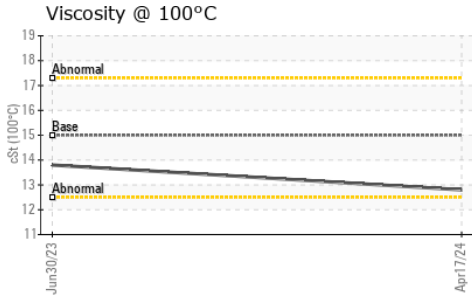
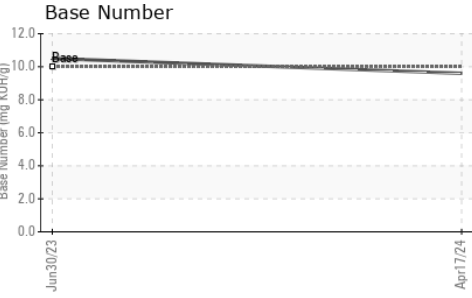
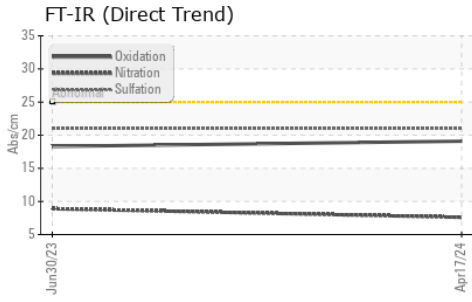
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	12	15	---
Potassium	ppm	ASTM D5185m	>20	1	2	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.0	---
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		6	4	---
Boron	ppm	ASTM D5185m	2.5	29	33	---
Barium	ppm	ASTM D5185m	0.0	0	6	---
Molybdenum	ppm	ASTM D5185m	0.7	41	1	---
Manganese	ppm	ASTM D5185m	0.0	1	2	---
Magnesium	ppm	ASTM D5185m	256	502	161	---
Calcium	ppm	ASTM D5185m	2057	1777	2366	---
Phosphorus	ppm	ASTM D5185m	935	889	711	---
Zinc	ppm	ASTM D5185m	1223	1125	848	---
Sulfur	ppm	ASTM D5185m	4079	3267	2855	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	18.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.6	10.5	---
Visc @ 100°C	cSt	ASTM D445	15.0	12.8	13.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP437945  
**Lab Number** : 06190161  
**Unique Number** : 11046913  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Received** : 24 May 2024  
**Tested** : 28 May 2024  
**Diagnosed** : 28 May 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)