



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area

[41753]

Machine Id

VOLVO A45G 353742

Component

Diesel Engine

Fluid

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

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP454610	VCP444897	---
Sample Date		Client Info		11 Apr 2024	11 Apr 2024	---
Machine Age	hrs	Client Info		574	574	---
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				ATTENTION	ATTENTION	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	26	28	---
Chromium	ppm	ASTM D5185m	>20	2	2	---
Nickel	ppm	ASTM D5185m	>2	7	4	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	4	4	---
Lead	ppm	ASTM D5185m	>40	2	2	---
Copper	ppm	ASTM D5185m	>330	312	290	---
Tin	ppm	ASTM D5185m	>15	6	6	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

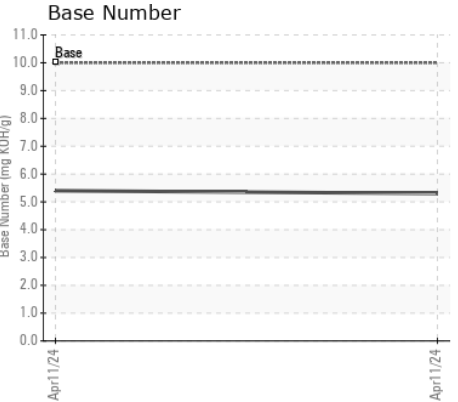
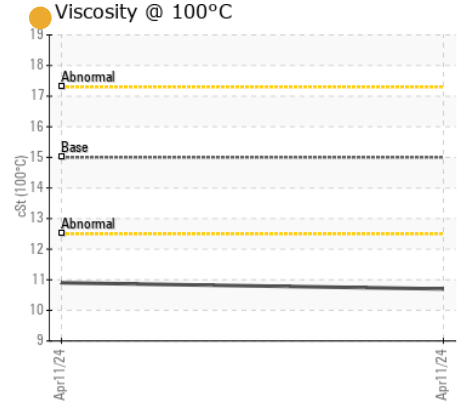
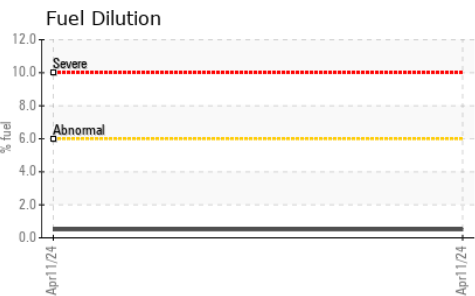
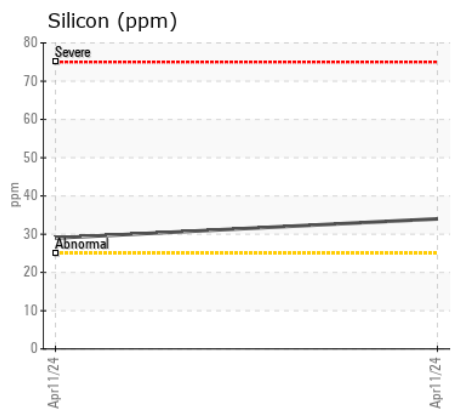
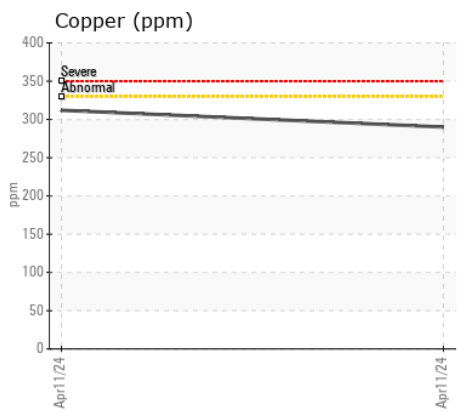
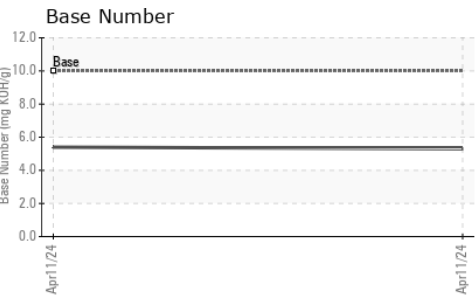
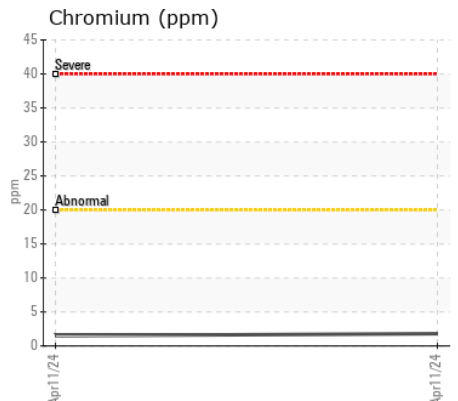
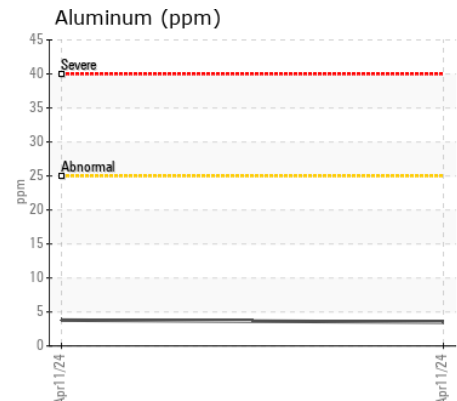
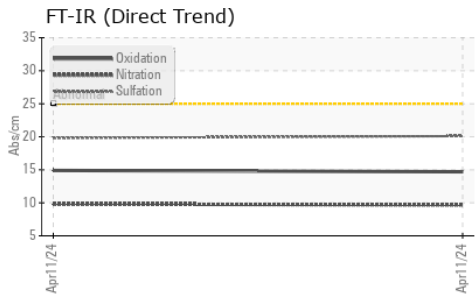
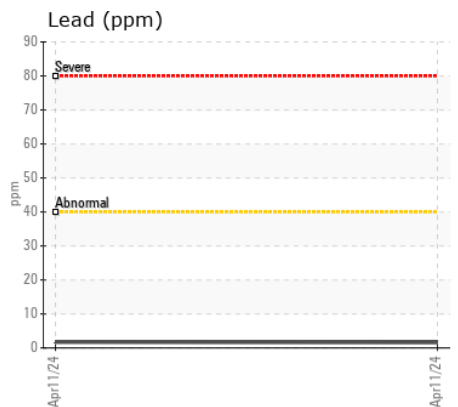
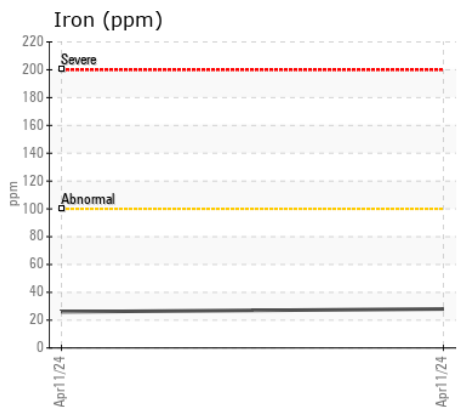
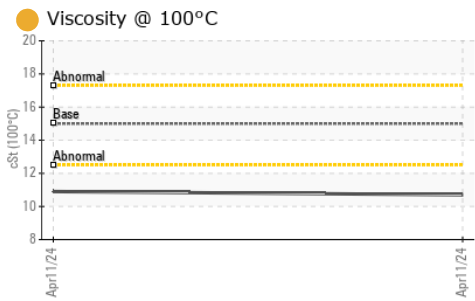
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	29	34	---
Potassium	ppm	ASTM D5185m	>20	4	3	---
Fuel	%	ASTM D3524	>6.0	<1.0	0.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	19.8	---
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	2	---
Boron	ppm	ASTM D5185m	2.5	43	37	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.7	96	96	---
Manganese	ppm	ASTM D5185m	0.0	2	2	---
Magnesium	ppm	ASTM D5185m	256	40	47	---
Calcium	ppm	ASTM D5185m	2057	2418	2420	---
Phosphorus	ppm	ASTM D5185m	935	1113	1097	---
Zinc	ppm	ASTM D5185m	1223	1285	1281	---
Sulfur	ppm	ASTM D5185m	4079	4401	4342	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	5.3	5.4	---
Visc @ 100°C	cSt	ASTM D445	15.0	10.7	10.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP454610 **Received** : 15 Apr 2024
Lab Number : 06148370 **Tested** : 19 Apr 2024
Unique Number : 10978448 **Diagnosed** : 19 Apr 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel, TBN)

215 - ASCENDUM MACHINERY INC - CAYCE
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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)