



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[SWA530860]
 Machine Id
VOLVO L220H 2541
 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		VCP438863	VCP178013	---
Sample Date		Client Info		16 Apr 2024	22 Sep 2017	---
Machine Age	hrs	Client Info		12474	707	---
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	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>200	2	10	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>30	<1	2	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>20	<1	50	---
Tin	ppm	ASTM D5185m	>20	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

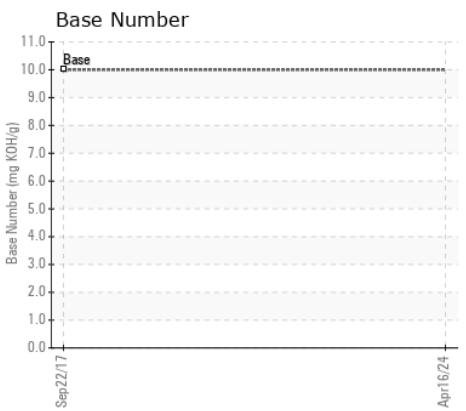
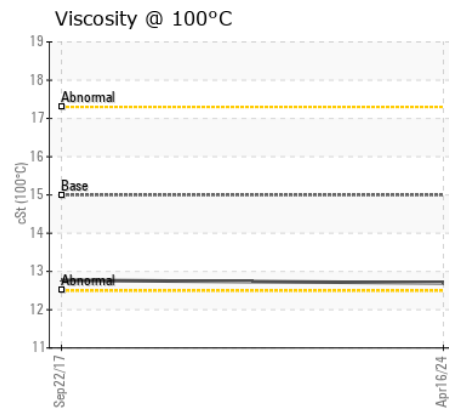
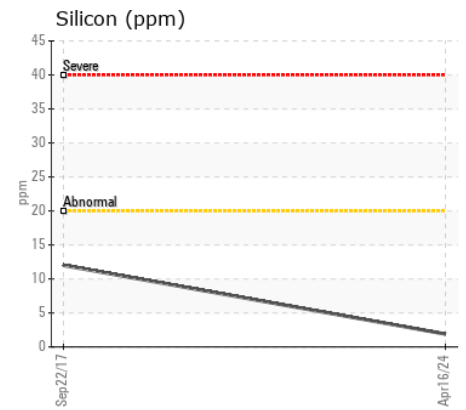
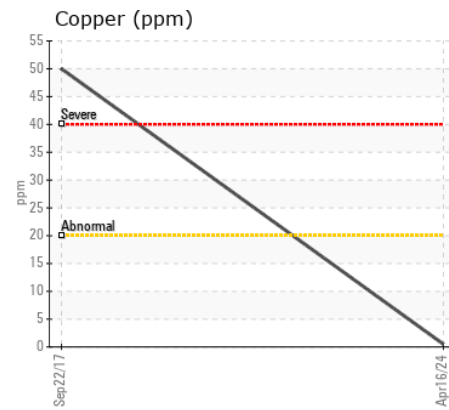
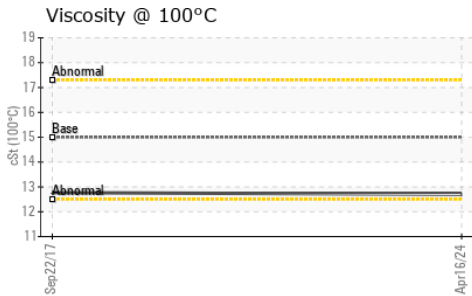
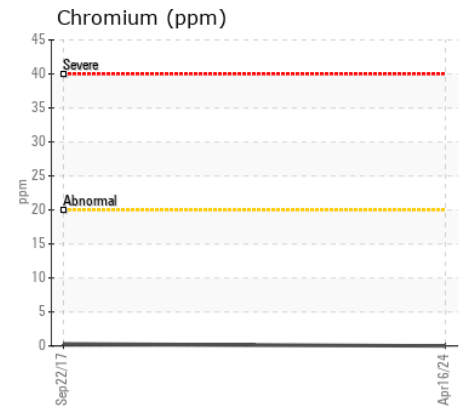
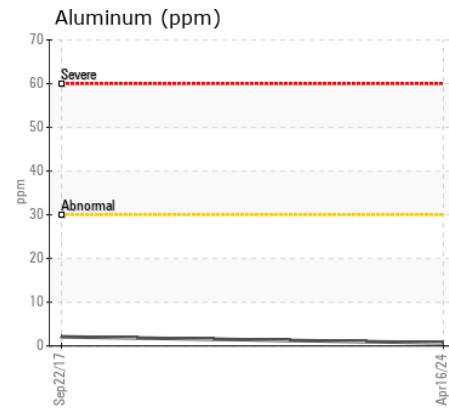
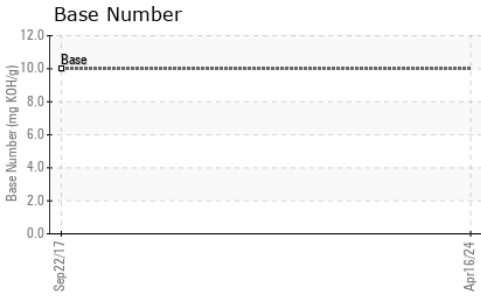
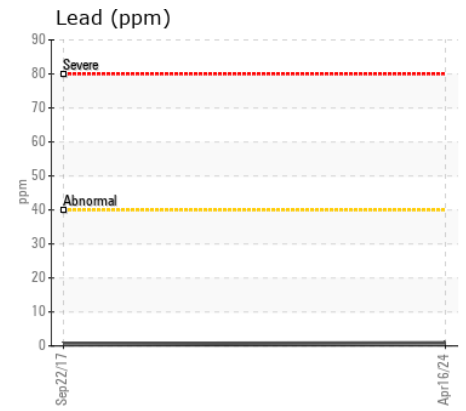
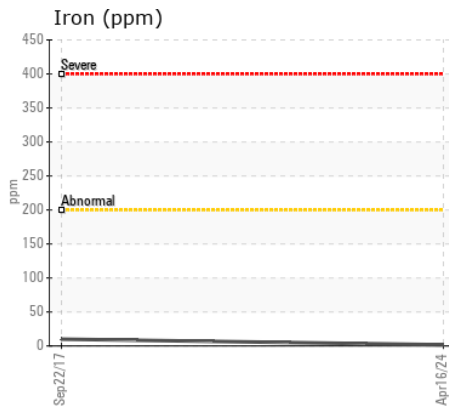
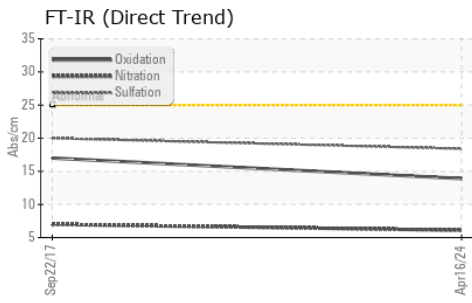
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	2	12	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0	---
Nitration	Abs/cm	*ASTM D7624	>20	6.1	7.	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	20.	---
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	3	---
Boron	ppm	ASTM D5185m	2.5	0	29	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.7	58	48	---
Manganese	ppm	ASTM D5185m	0.0	0	1	---
Magnesium	ppm	ASTM D5185m	256	973	607	---
Calcium	ppm	ASTM D5185m	2057	1107	1655	---
Phosphorus	ppm	ASTM D5185m	935	1026	829	---
Zinc	ppm	ASTM D5185m	1223	1185	921	---
Sulfur	ppm	ASTM D5185m	4079	3569	2356	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	17.	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.4	---	---
Visc @ 100°C	cSt	ASTM D445	15.0	12.7	12.77	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP438863 **Received** : 19 Apr 2024
Lab Number : 06153898 **Tested** : 23 Apr 2024
Unique Number : 10989321 **Diagnosed** : 23 Apr 2024 - Angela Borella
Test Package : MOB 1 (Additional Tests: TBN)

PREFERRED MATERIALS
 4636 SCARBOROUGH DR
 LUTZ, FL
 US 33559
 Contact: Service Manager

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)

T: (850)479-3004

F: