



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[587695]

Machine Id

VOLVO L70H 623953

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		VCP451021	VCP357938	---
Sample Date		Client Info		18 Jun 2024	27 Apr 2022	---
Machine Age	hrs	Client Info		7398	2062	---
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				ABNORMAL	NORMAL	---

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	35	52	---
Chromium	ppm	ASTM D5185m	>10	2	2	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>10	▲ 27	11	---
Lead	ppm	ASTM D5185m	>20	<1	3	---
Copper	ppm	ASTM D5185m	>15	2	5	---
Tin	ppm	ASTM D5185m	>10	<1	2	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

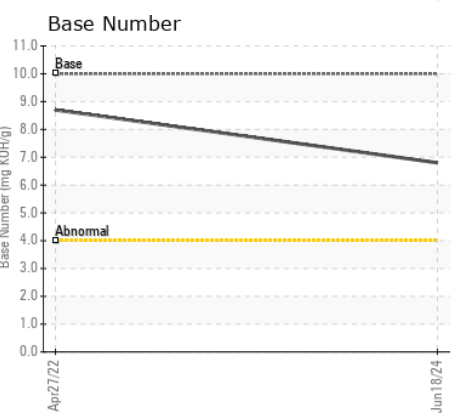
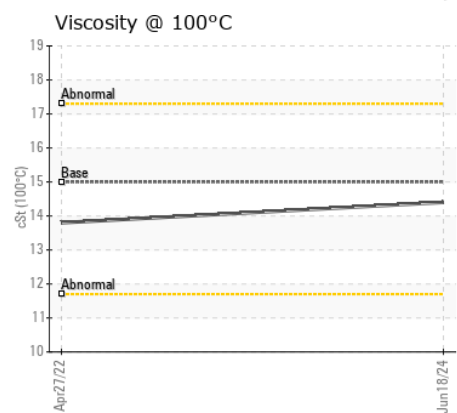
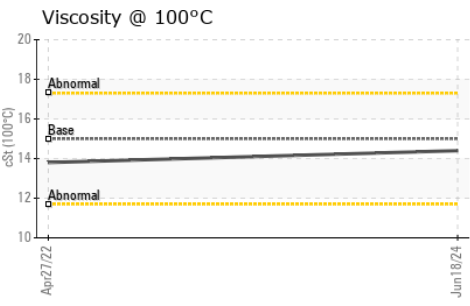
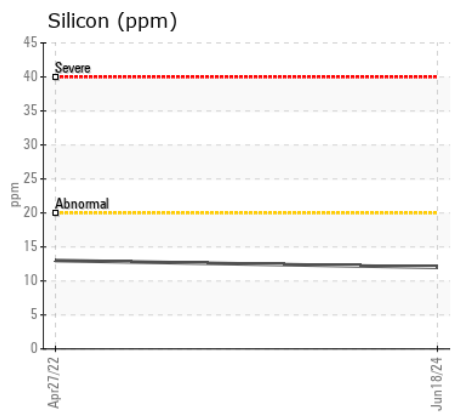
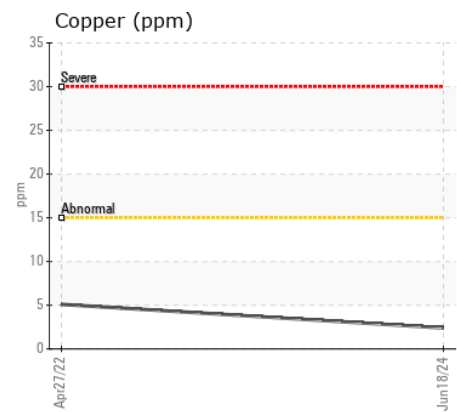
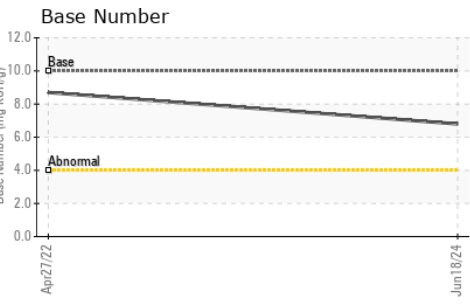
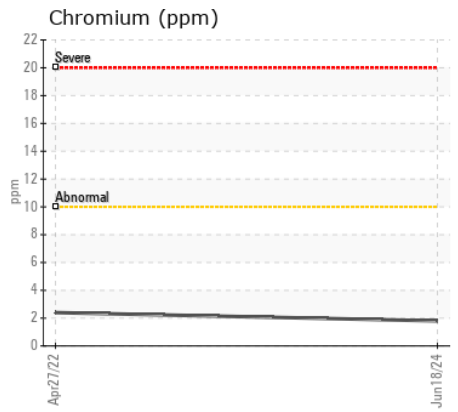
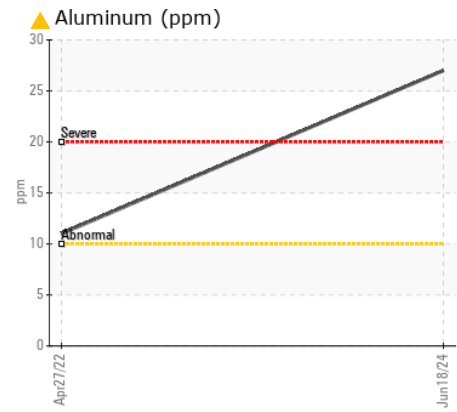
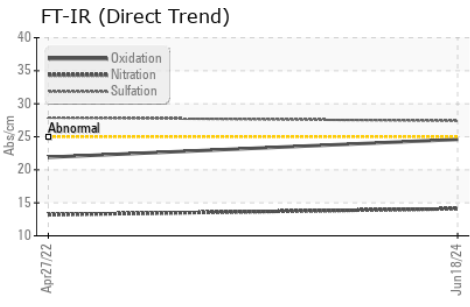
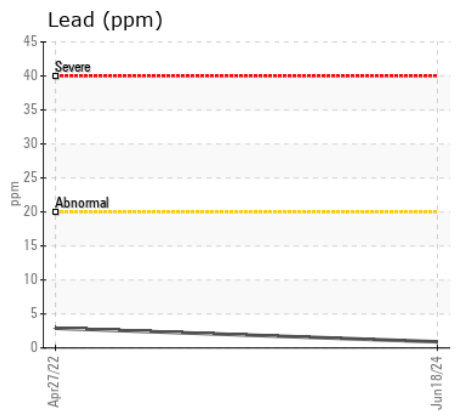
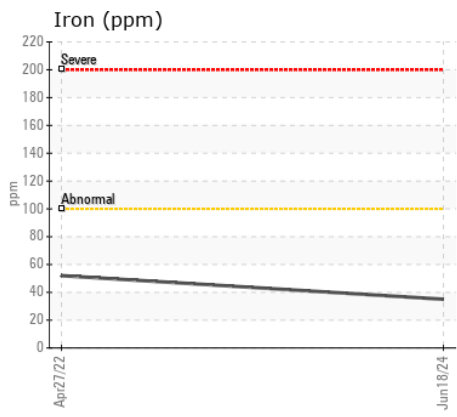
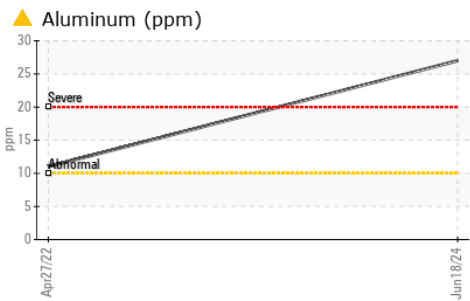
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	12	13	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	1.5	1.6	---
Nitration	Abs/cm	*ASTM D7624	>20	14.1	13.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.4	27.9	---
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	>0.1	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		3	2	---
Boron	ppm	ASTM D5185m	2.5	12	<1	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.7	51	62	---
Manganese	ppm	ASTM D5185m	0.0	0	1	---
Magnesium	ppm	ASTM D5185m	256	538	921	---
Calcium	ppm	ASTM D5185m	2057	2011	1203	---
Phosphorus	ppm	ASTM D5185m	935	1045	994	---
Zinc	ppm	ASTM D5185m	1223	1355	1281	---
Sulfur	ppm	ASTM D5185m	4079	3187	2357	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.6	21.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	6.8	8.7	---
Visc @ 100°C	cSt	ASTM D445	15.0	14.4	13.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP451021 **Received** : 26 Jun 2024
Lab Number : 06220747 **Tested** : 27 Jun 2024
Unique Number : 11098944 **Diagnosed** : 27 Jun 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: TBN)

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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)