



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[730037 IAA]

Machine Id

VOLVO L90H 624528

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		VCP410020	VCP406190	VCP323912
Sample Date		Client Info		14 Jun 2024	19 Jan 2023	26 May 2021
Machine Age	hrs	Client Info		7630	5591	4115
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	22	17
Chromium	ppm	ASTM D5185m	>10	<1	2	1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	3	8	8
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>15	<1	1	1
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

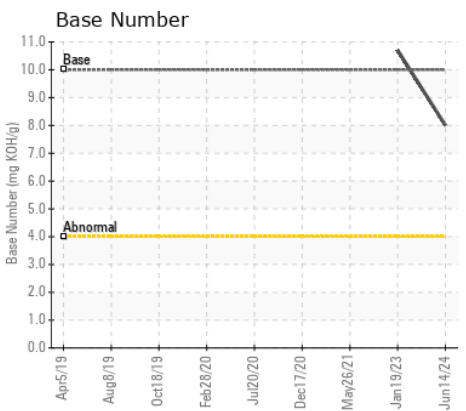
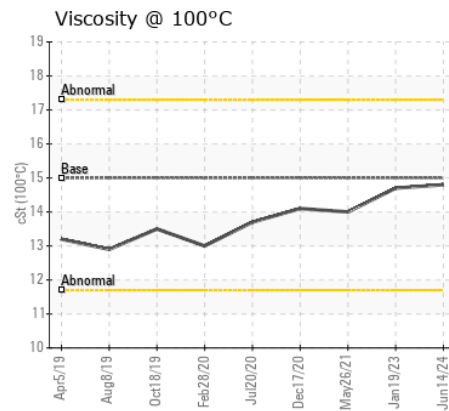
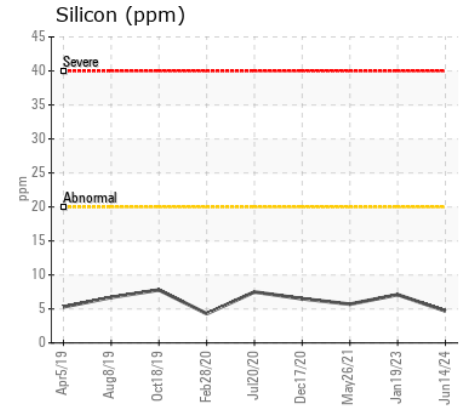
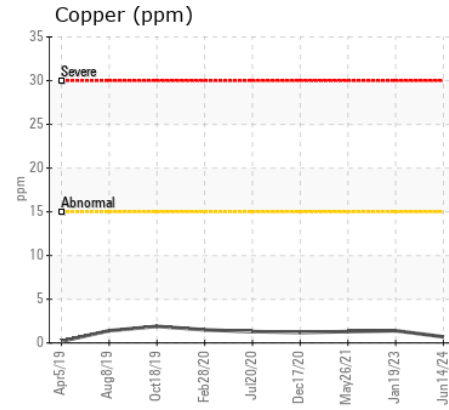
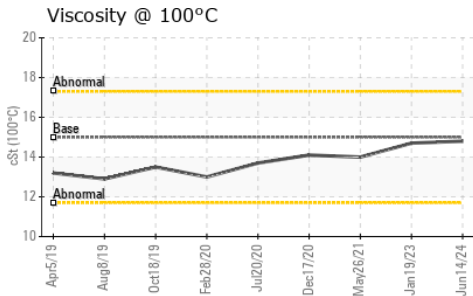
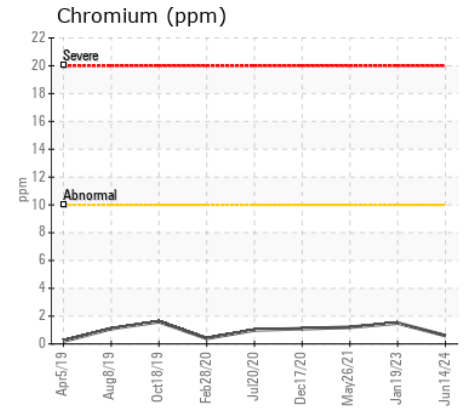
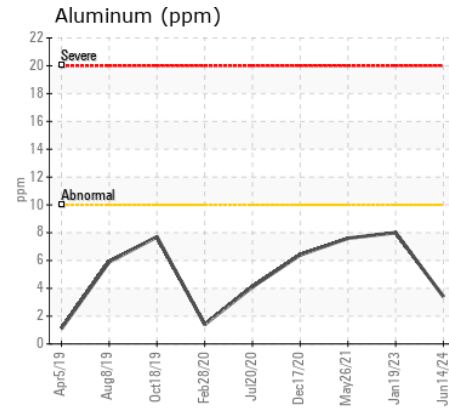
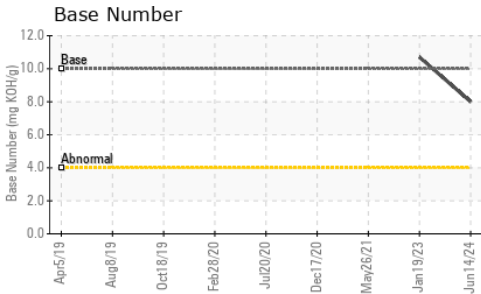
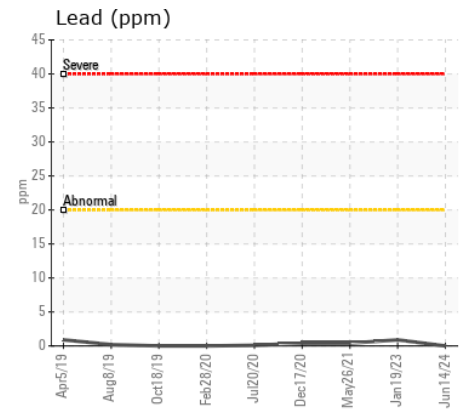
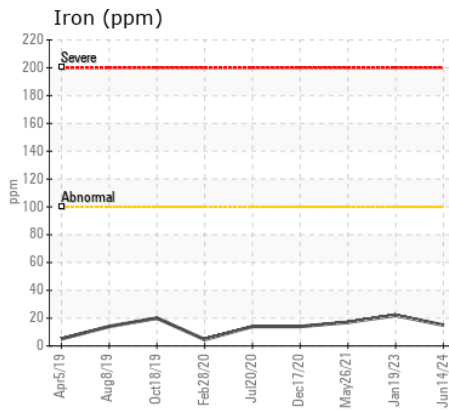
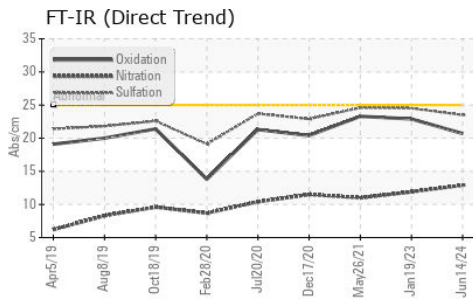
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	7	6
Potassium	ppm	ASTM D5185m	>20	<1	1	2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.1	1.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	12.9	11.9	11
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	24.5	24.6
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	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		1	3	4
Boron	ppm	ASTM D5185m	2.5	0	13	31
Barium	ppm	ASTM D5185m	0.0	0	3	0
Molybdenum	ppm	ASTM D5185m	0.7	63	49	38
Manganese	ppm	ASTM D5185m	0.0	0	<1	<1
Magnesium	ppm	ASTM D5185m	256	1064	554	522
Calcium	ppm	ASTM D5185m	2057	1258	1908	1860
Phosphorus	ppm	ASTM D5185m	935	1087	1031	982
Zinc	ppm	ASTM D5185m	1223	1320	1263	1146
Sulfur	ppm	ASTM D5185m	4079	3570	3251	2577
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7	22.9	23.3
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.0	10.7	---
Visc @ 100°C	cSt	ASTM D445	15.0	14.8	14.7	14.0



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP410020 **Received** : 19 Jun 2024
Lab Number : 06214332 **Tested** : 20 Jun 2024
Unique Number : 11087196 **Diagnosed** : 21 Jun 2024 - Don Baldrige
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)