



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A40G 352199
Component
Wet Disc Brake
Fluid
MOBIL MOBILGARD 424 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP396992	VCP442544	VCP396512
Sample Date		Client Info		12 Mar 2024	29 Nov 2023	25 Sep 2023
Machine Age	hrs	Client Info		7031	6652	6129
Oil Age	hrs	Client Info		379	2035	1532
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level is abnormal. The copper level is abnormal.

Iron	ppm	ASTM D5185m	>20	▲ 27	▲ 29	▲ 22
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	5	5	6
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	0
Lead	ppm	ASTM D5185m	>10	<1	4	<1
Copper	ppm	ASTM D5185m	>75	▲ 174	▲ 231	▲ 239
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

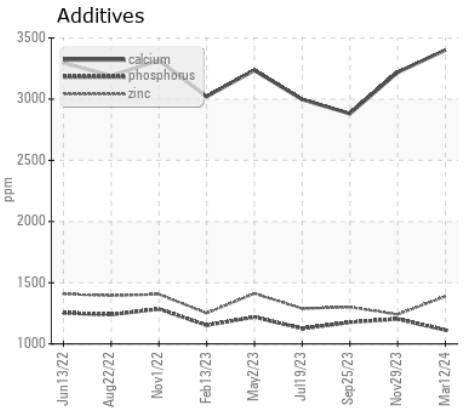
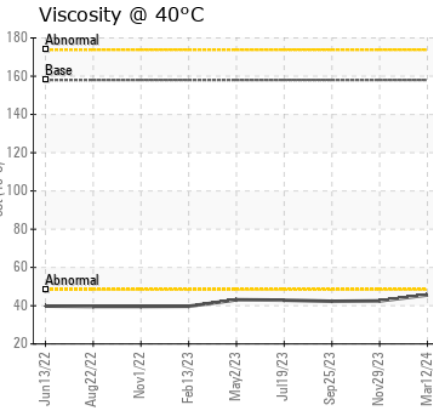
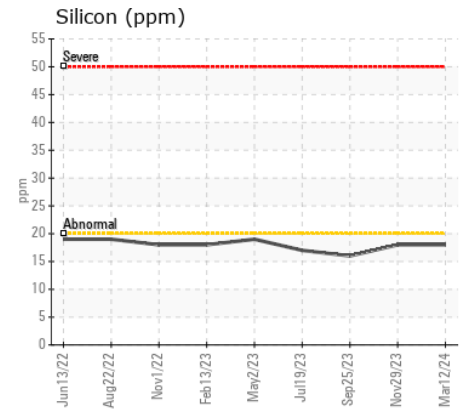
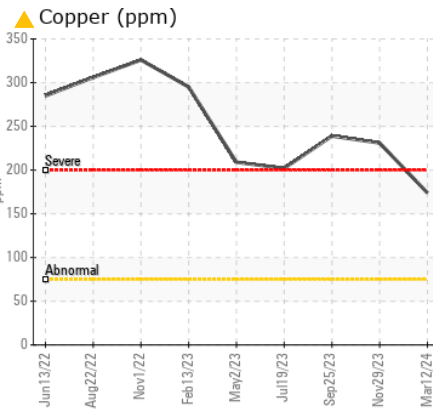
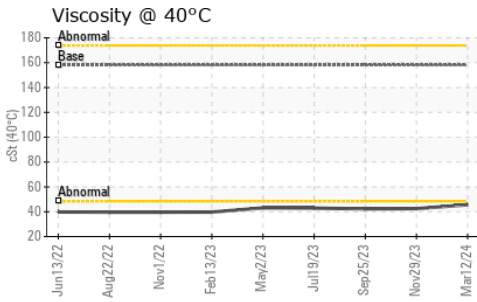
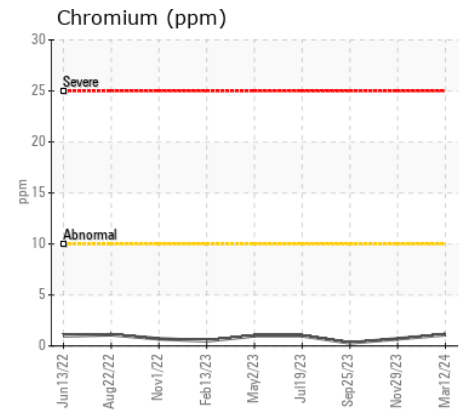
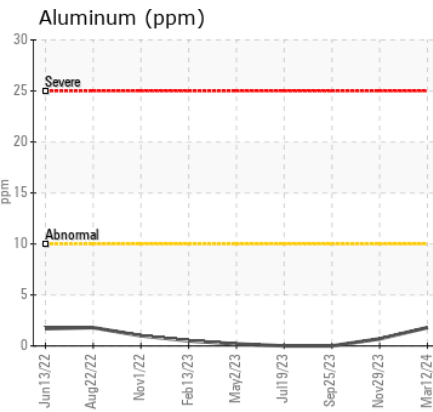
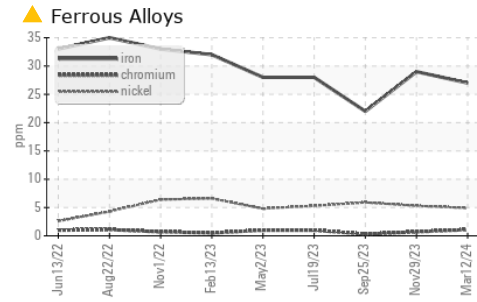
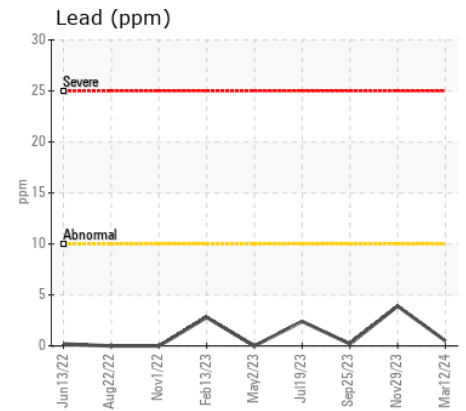
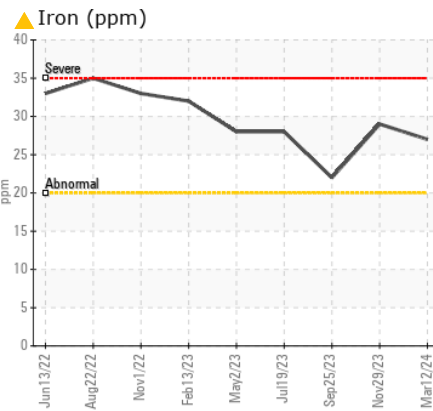
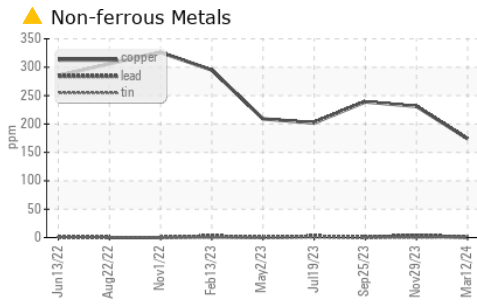
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	18	18	16
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	6	3
Boron	ppm	ASTM D5185m		101	113	86
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m		13	0	8
Calcium	ppm	ASTM D5185m		3401	3219	2881
Phosphorus	ppm	ASTM D5185m		1113	1204	1177
Zinc	ppm	ASTM D5185m		1389	1241	1301
Sulfur	ppm	ASTM D5185m		6087	4054	4261
Visc @ 40°C	cSt	ASTM D445	158	45.6	42.5	42.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP396992
Lab Number : 06124045
Unique Number : 10938196
Test Package : MOB 1
Received : 20 Mar 2024
Tested : 21 Mar 2024
Diagnosed : 22 Mar 2024 - Don Baldrige

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Certificate L2367
 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)