



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION



Machine Id
VOLVO A40G 353142
Component
Transmission (Auto)
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The 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		VCP435612	VCP416305	VCP406904
Sample Date		Client Info		21 Feb 2024	18 Aug 2023	12 Apr 2023
Machine Age	hrs	Client Info		3175	2126	1624
Oil Age	hrs	Client Info		0	0	1624
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Moderate concentration of visible metal present. All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	18	42	39
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	3	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	12	24	6
Lead	ppm	ASTM D5185m	>50	1	0	0
Copper	ppm	ASTM D5185m	>225	10	25	9
Tin	ppm	ASTM D5185m	>10	1	4	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	▲ MODER	▲ MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

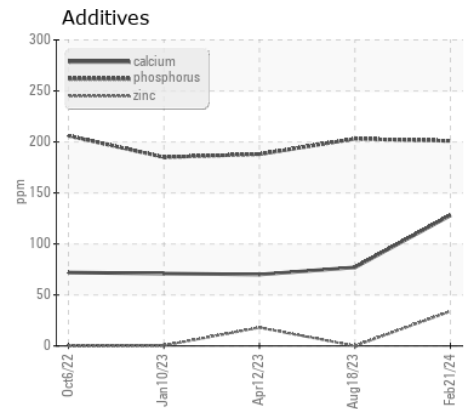
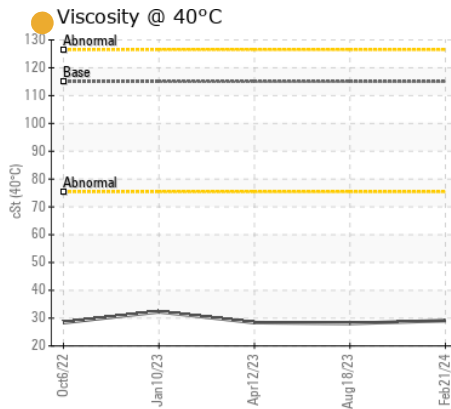
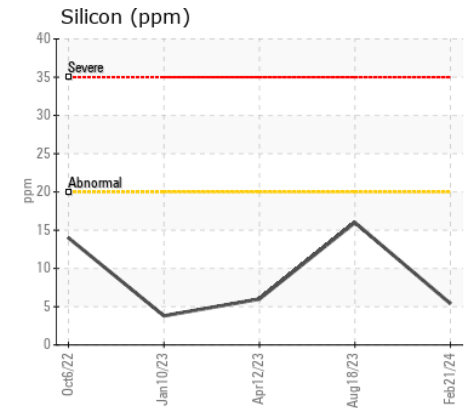
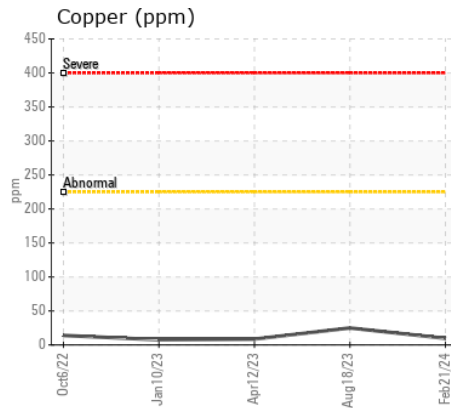
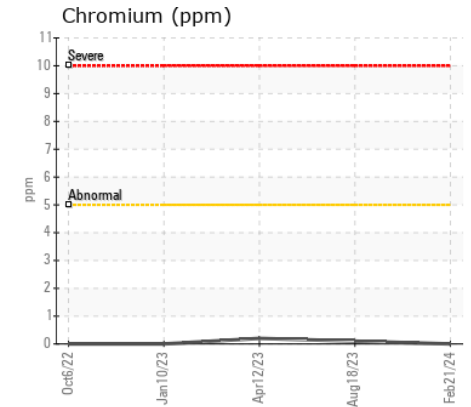
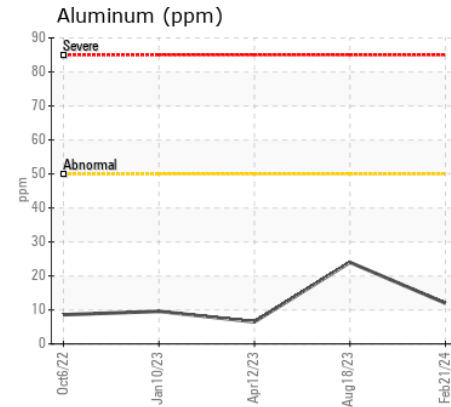
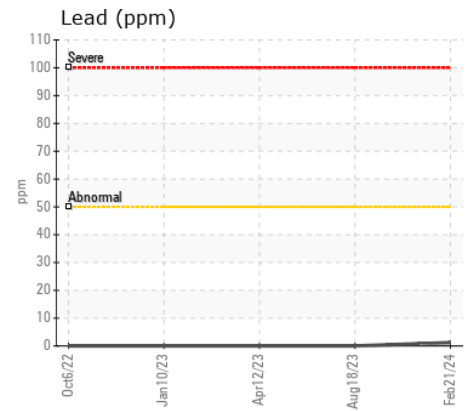
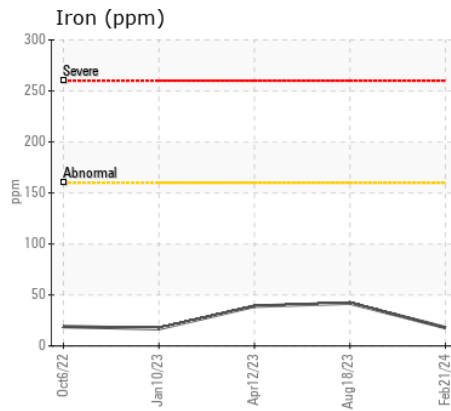
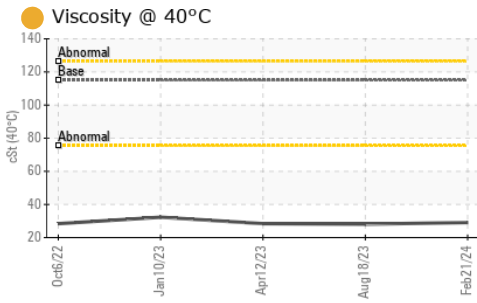
Moderate concentration of visible dirt/debris present in the fluid.

Silicon	ppm	ASTM D5185m	>20	5	16	6
Potassium	ppm	ASTM D5185m	>20	2	4	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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 fluid viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of fluid. Confirm oil type.

Sodium	ppm	ASTM D5185m	>158	5	6	4
Boron	ppm	ASTM D5185m	250	82	77	89
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	0	0	<1
Manganese	ppm	ASTM D5185m		<1	5	6
Magnesium	ppm	ASTM D5185m	450	2	0	1
Calcium	ppm	ASTM D5185m	3000	128	77	70
Phosphorus	ppm	ASTM D5185m	1150	201	203	188
Zinc	ppm	ASTM D5185m	1350	34	0	18
Sulfur	ppm	ASTM D5185m	4250	1657	2268	2169
Visc @ 40°C	cSt	ASTM D445	115	● 29.1	28.1	28.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP435612 **Received** : 27 Feb 2024
Lab Number : 06102626 **Tested** : 28 Feb 2024
Unique Number : 10900856 **Diagnosed** : 29 Feb 2024 - Don Baldrige
Test Package : MOB 1

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619

Contact: PM Services
 PMServices@ripaconstruction.com

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)

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