



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO A40G 342374
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP441993	VCP441996	VCP445793
Sample Date		Client Info		05 Feb 2024	19 Dec 2023	06 Dec 2023
Machine Age	hrs	Client Info		11098	10915	10857
Oil Age	hrs	Client Info		183	58	273
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	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	5	4	12
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	2	▲ 14
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	2	5
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>20	1	<1	2
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

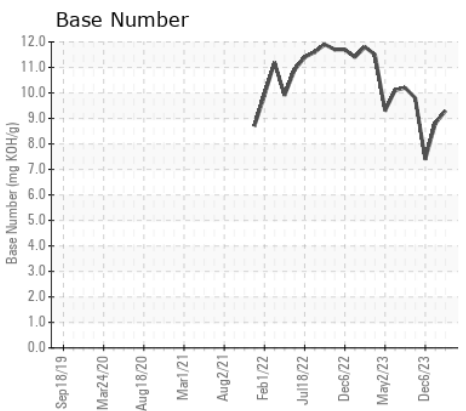
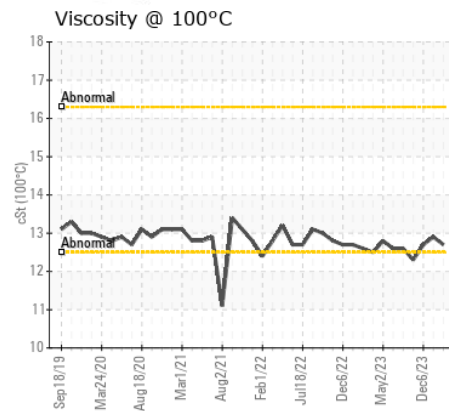
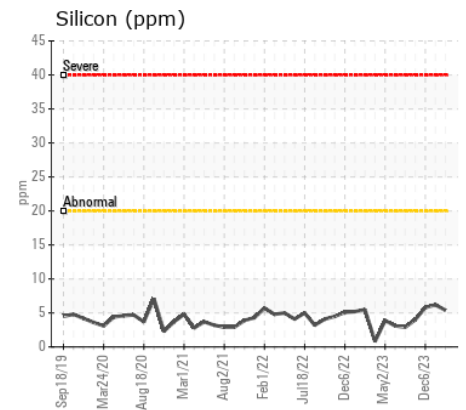
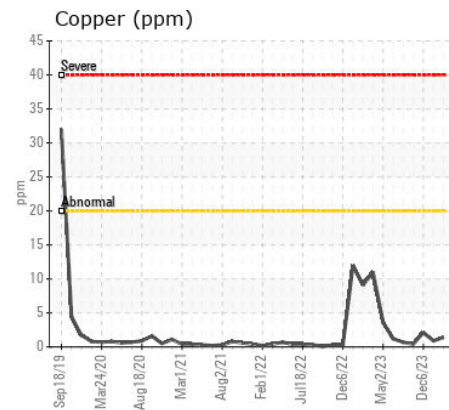
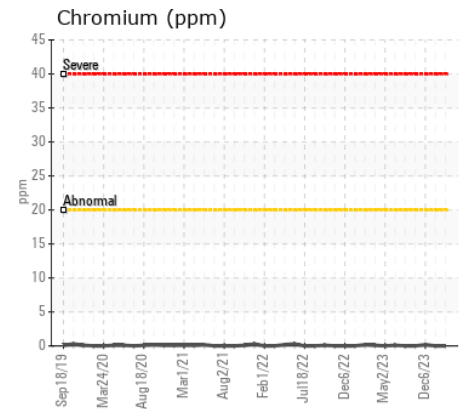
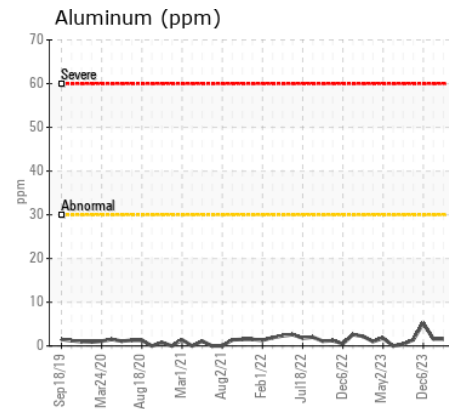
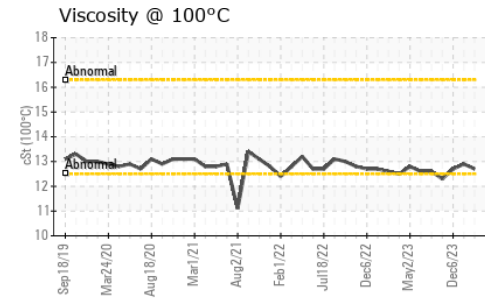
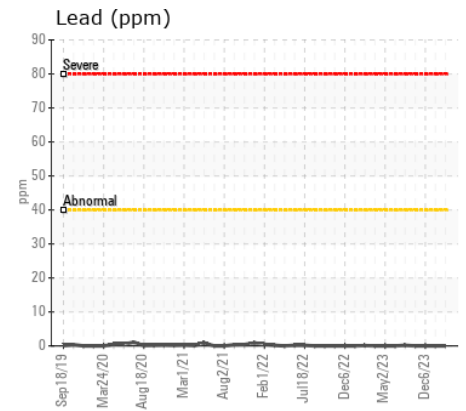
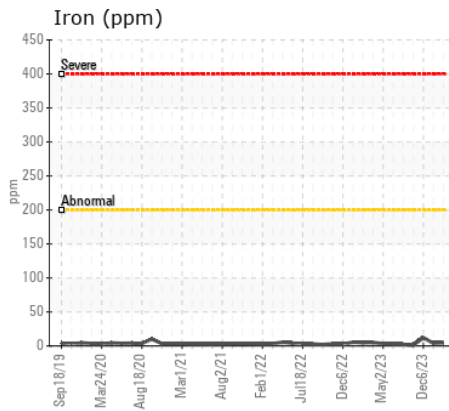
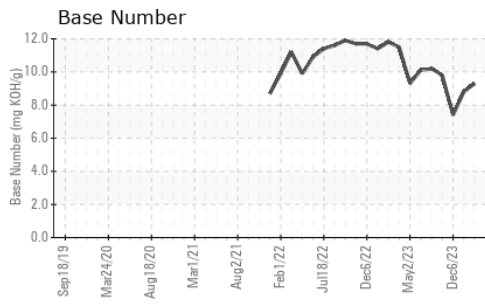
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	6	6
Potassium	ppm	ASTM D5185m	>20	8	7	29
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.1	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.7	19.6
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	>0.2	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	>118	7	7	37
Boron	ppm	ASTM D5185m		85	98	99
Barium	ppm	ASTM D5185m		12	12	0
Molybdenum	ppm	ASTM D5185m		64	73	95
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		521	534	620
Calcium	ppm	ASTM D5185m		1497	1401	1508
Phosphorus	ppm	ASTM D5185m		795	757	757
Zinc	ppm	ASTM D5185m		853	826	938
Sulfur	ppm	ASTM D5185m		3241	3184	2937
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	16.6	17.0
Base Number (BN)	mg KOH/g	ASTM D2896		9.3	8.8	7.4
Visc @ 100°C	cSt	ASTM D445		12.7	12.9	12.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP441993 **Received** : 14 Feb 2024
Lab Number : 06088591 **Tested** : 15 Feb 2024
Unique Number : 10876036 **Diagnosed** : 15 Feb 2024 - Sean Felton
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)