



VOLVO

OIL ANALYSIS REPORT

WEAR**NORMAL****CONTAMINATION****ABNORMAL****FLUID CONDITION****ABNORMAL**

Machine Id
VOLVO A40G 352566
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP435158	VCP416812	VCP331580
Sample Date		Client Info		02 Apr 2024	13 Feb 2024	11 Dec 2023
Machine Age	hrs	Client Info		5666	5324	5026
Oil Age	hrs	Client Info		342	298	218
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	6	5	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	4	3
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	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

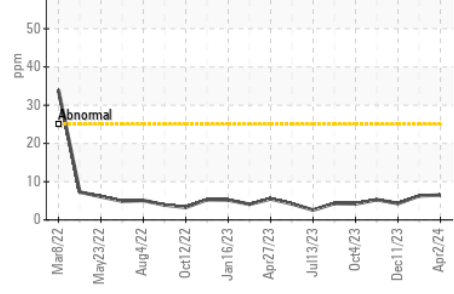
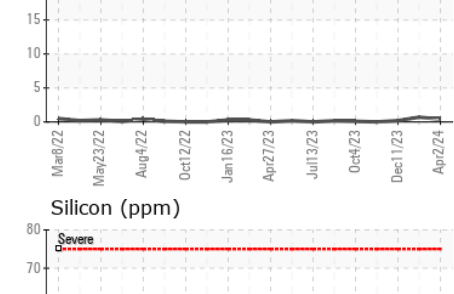
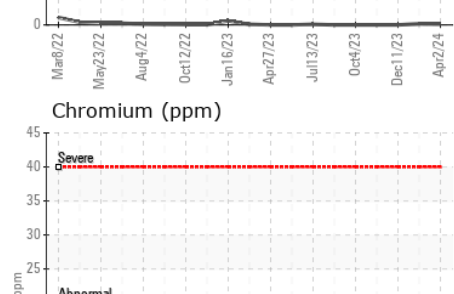
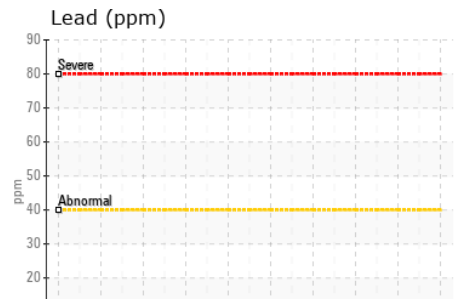
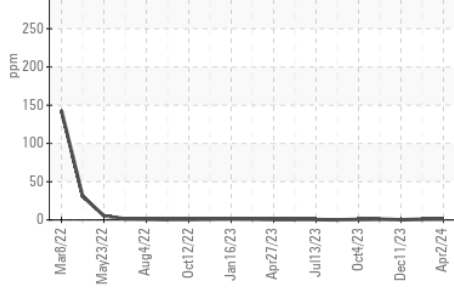
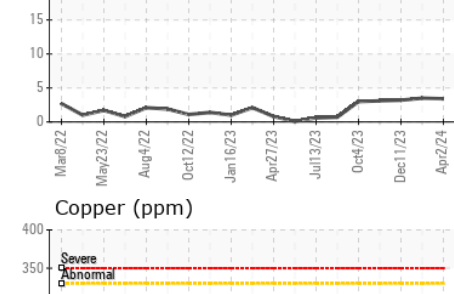
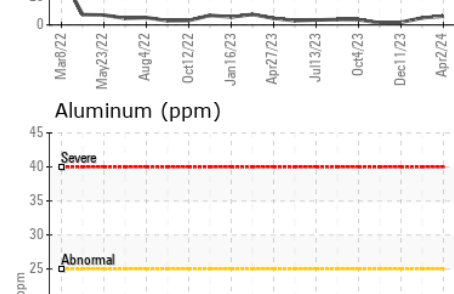
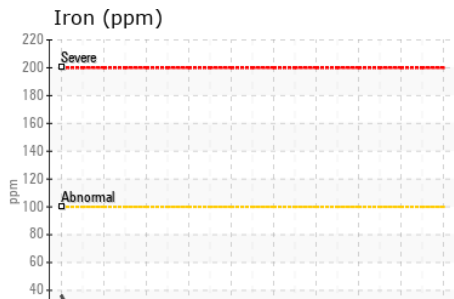
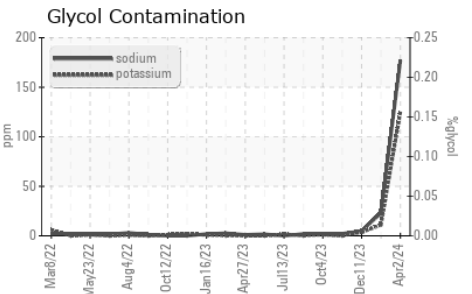
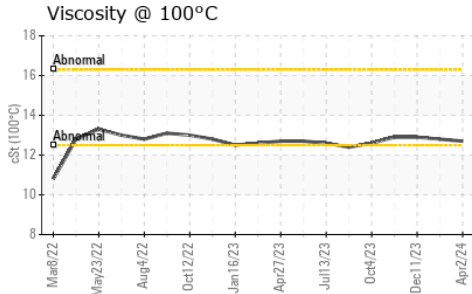
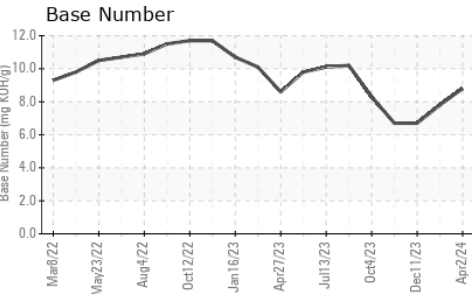
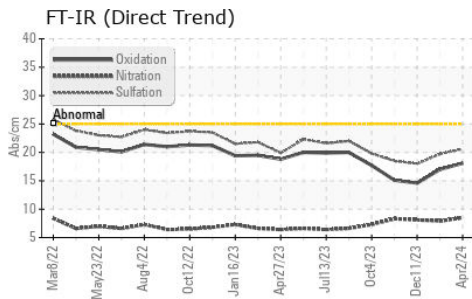
Sodium and/or potassium levels are high.

Silicon	ppm	ASTM D5185m	>25	6	6	4
Potassium	ppm	ASTM D5185m	>20	▲ 125	11	4
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.9	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	19.7	18.0
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.

Sodium	ppm	ASTM D5185m	>118	▲ 177	23	5
Boron	ppm	ASTM D5185m		66	72	119
Barium	ppm	ASTM D5185m		0	34	0
Molybdenum	ppm	ASTM D5185m		84	80	119
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		541	506	636
Calcium	ppm	ASTM D5185m		1496	1255	1212
Phosphorus	ppm	ASTM D5185m		772	638	765
Zinc	ppm	ASTM D5185m		878	800	827
Sulfur	ppm	ASTM D5185m		3076	2973	3623
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	17.0	14.6
Base Number (BN)	mg KOH/g	ASTM D2896		8.8	7.8	6.7
Visc @ 100°C	cSt	ASTM D445		12.7	12.8	12.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP435158 **Received** : 19 Apr 2024
Lab Number : 06154053 **Tested** : 23 Apr 2024
Unique Number : 10989476 **Diagnosed** : 23 Apr 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: Glycol, 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)