



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[SWA499940]
Machine Id
VOLVO L220H 2541
Component
Rear Axle
Fluid
VOLVO WB 102 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil 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		VCP419945	VCP438865	VCP251529
Sample Date		Client Info		18 Apr 2024	16 Apr 2024	15 Aug 2019
Machine Age	hrs	Client Info		12417	12474	4400
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		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	33	24	38
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	<1	<1
Lead	ppm	ASTM D5185m	>50	0	0	1
Copper	ppm	ASTM D5185m	>120	0	0	7
Tin	ppm	ASTM D5185m	>20	<1	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

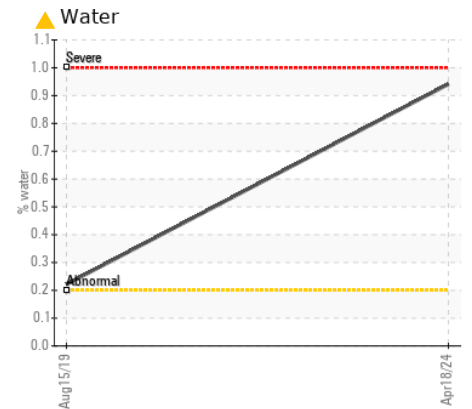
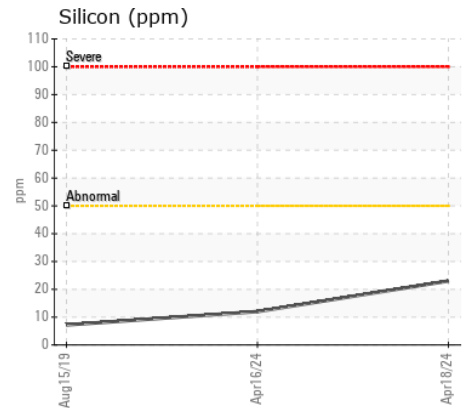
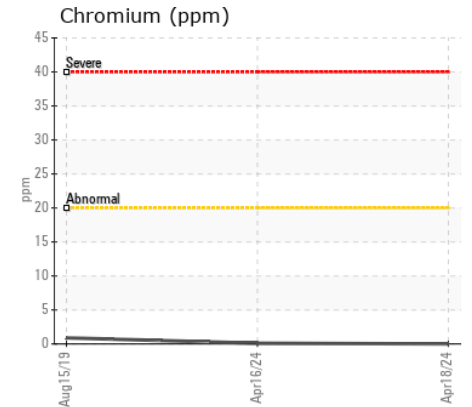
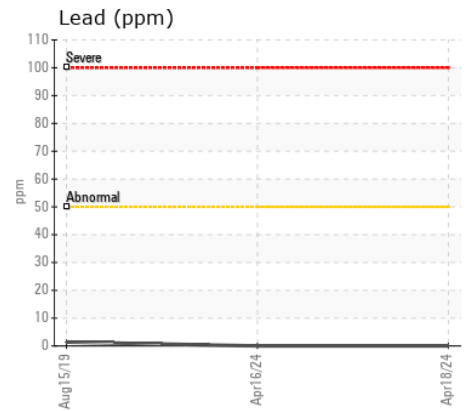
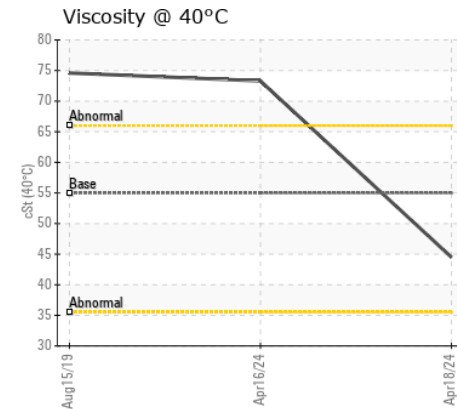
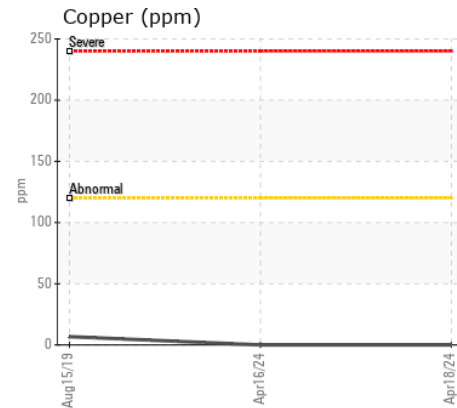
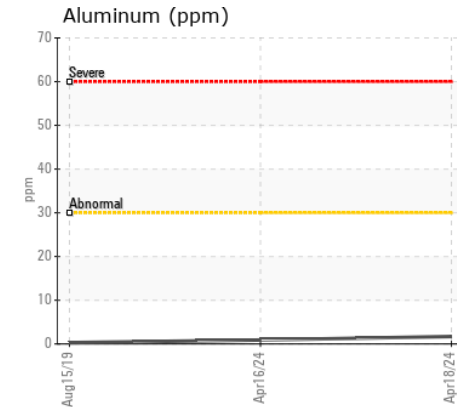
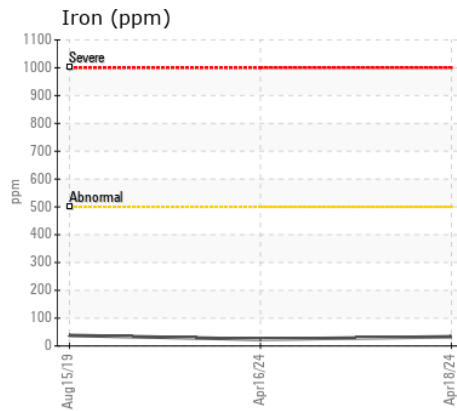
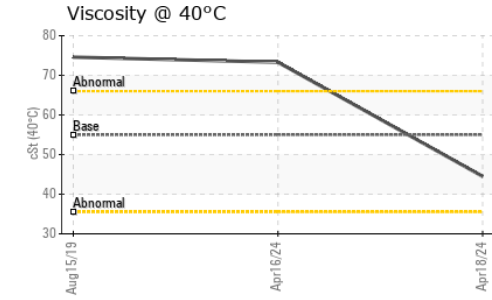
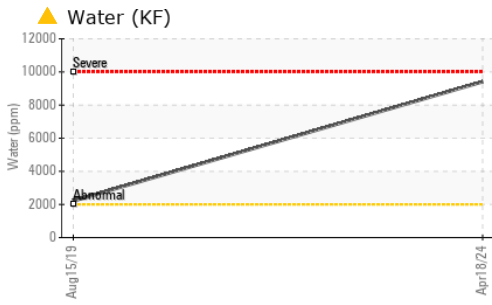
Appearance is hazy. There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>50	23	12	7
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water	%	ASTM D6304	>0.2	▲ 0.941	---	▲ 0.221
ppm Water	ppm	ASTM D6304	>2000	▲ 9410	---	▲ 2210
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	● HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	NEG	0.2%

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	1	2
Boron	ppm	ASTM D5185m		23	84	39
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	3	5
Manganese	ppm	ASTM D5185m		<1	1	3
Magnesium	ppm	ASTM D5185m		16	16	25
Calcium	ppm	ASTM D5185m		3237	3727	3148
Phosphorus	ppm	ASTM D5185m		1268	1216	914
Zinc	ppm	ASTM D5185m		1445	1425	1238
Sulfur	ppm	ASTM D5185m		5456	6147	8865
Visc @ 40°C	cSt	ASTM D445	55	44.5	73.3	74.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP419945 **Received** : 25 Apr 2024
Lab Number : 06160737 **Tested** : 26 Apr 2024
Unique Number : 10996160 **Diagnosed** : 29 Apr 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF)

PREFERRED MATERIALS
 4636 SCARBOROUGH DR
 LUTZ, FL
 US 33559
 Contact: Service Manager

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)

T: (850)479-3004

F: