



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[674503]
Machine Id
VOLVO L110G 8200
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP440686	VCP435962	VCP370554
Sample Date		Client Info		22 Feb 2024	10 Nov 2023	02 Dec 2022
Machine Age	hrs	Client Info		17946	17550	16481
Oil Age	hrs	Client Info		500	500	500
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	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>62	17	18	15
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>3	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	4	4
Lead	ppm	ASTM D5185m	>6	<1	<1	0
Copper	ppm	ASTM D5185m	>20	2	1	1
Tin	ppm	ASTM D5185m	>4	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

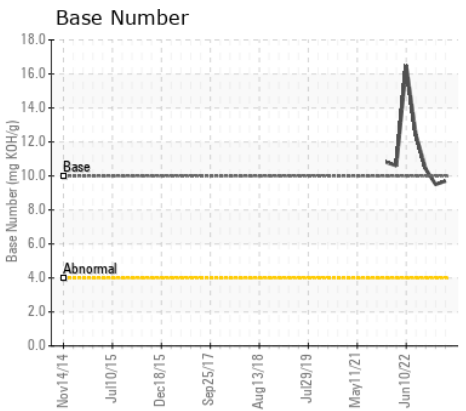
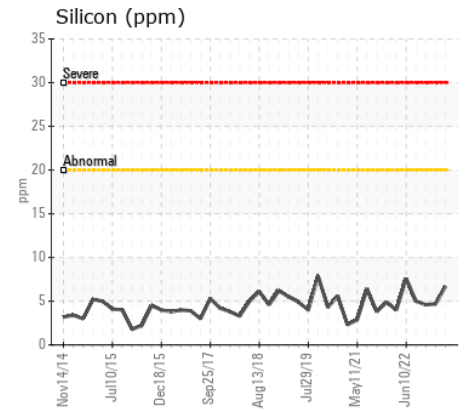
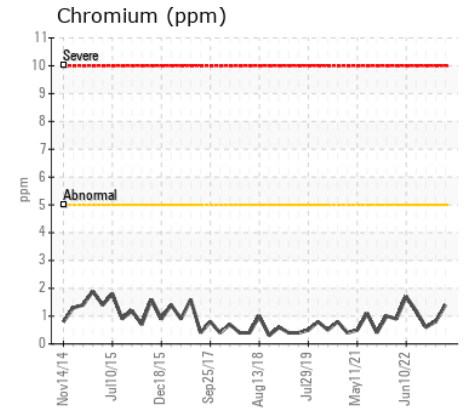
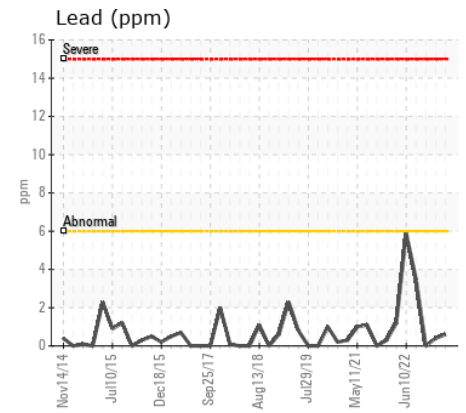
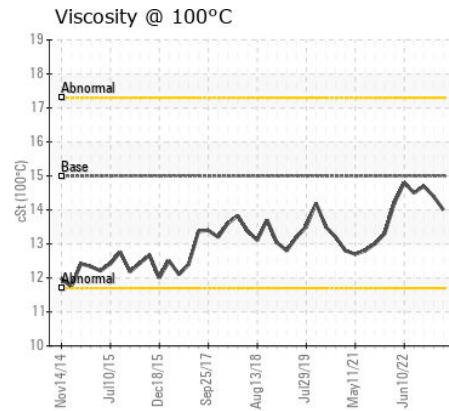
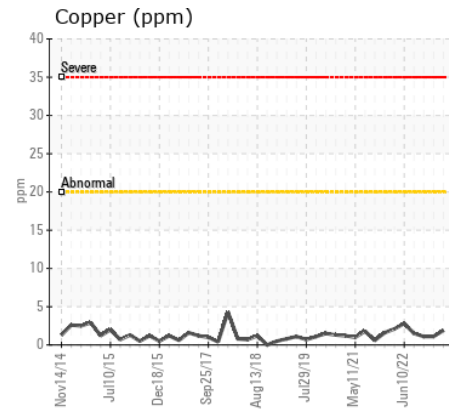
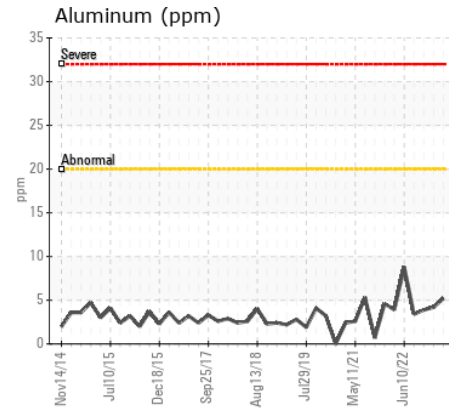
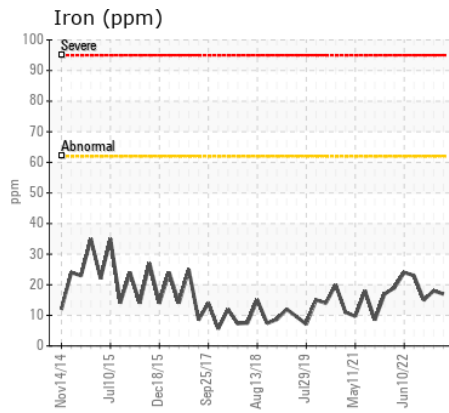
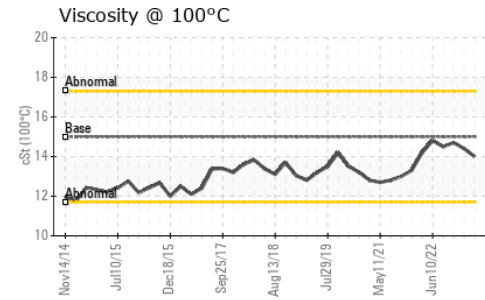
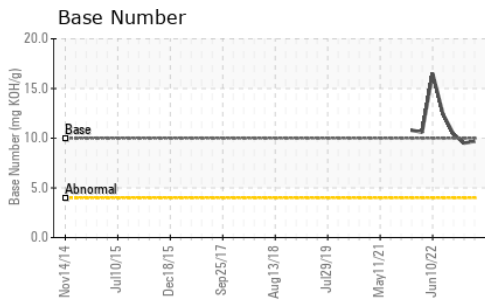
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	7	5	5
Potassium	ppm	ASTM D5185m	>20	2	1	0
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	*ASTM D7844	>3	0.8	1	1.2
Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.0	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.8	23.0
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		23	21	93
Boron	ppm	ASTM D5185m	2.5	15	20	37
Barium	ppm	ASTM D5185m	0.0	1	0	0
Molybdenum	ppm	ASTM D5185m	0.7	56	54	60
Manganese	ppm	ASTM D5185m	0.0	1	<1	<1
Magnesium	ppm	ASTM D5185m	256	876	853	906
Calcium	ppm	ASTM D5185m	2057	1212	1146	1248
Phosphorus	ppm	ASTM D5185m	935	949	986	1043
Zinc	ppm	ASTM D5185m	1223	1204	1216	1261
Sulfur	ppm	ASTM D5185m	4079	3424	2934	3839
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	16.1	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	9.7	9.5	10.4
Visc @ 100°C	cSt	ASTM D445	15.0	14.0	14.4	14.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP440686 **Received** : 28 Feb 2024
Lab Number : 06102683 **Tested** : 29 Feb 2024
Unique Number : 10900913 **Diagnosed** : 29 Feb 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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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