



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[SW0069350]
 Machine Id
VOLVO EC300ELR 311843
 Component
Swing Drive
 Fluid
COWIN 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP430881	VCP415145	VCP421723
Sample Date		Client Info		09 Feb 2024	06 Oct 2023	22 Sep 2023
Machine Age	hrs	Client Info		5843	5383	5320
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	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	38	4	220
Chromium	ppm	ASTM D5185m	>10	<1	0	3
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	1
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>50	6	<1	17
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

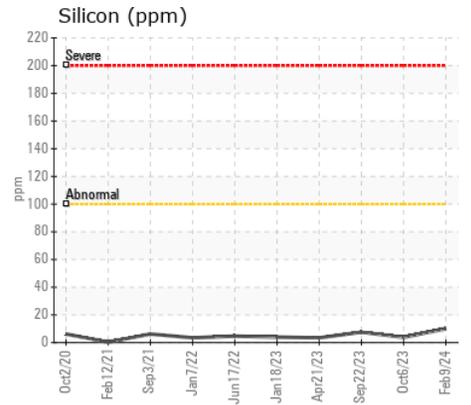
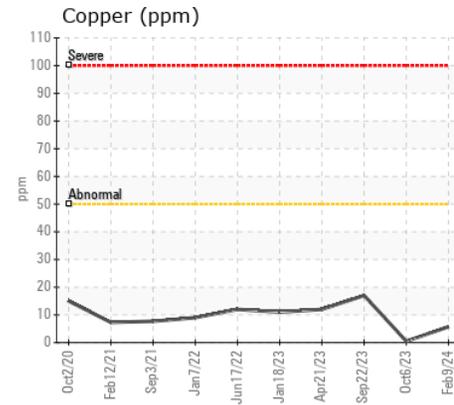
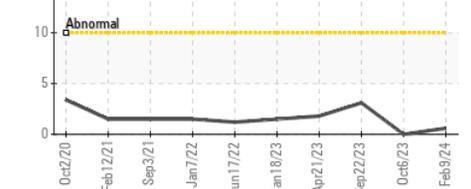
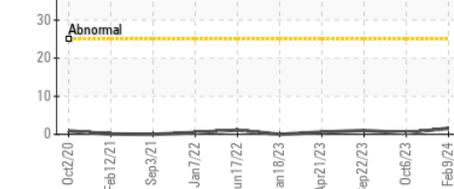
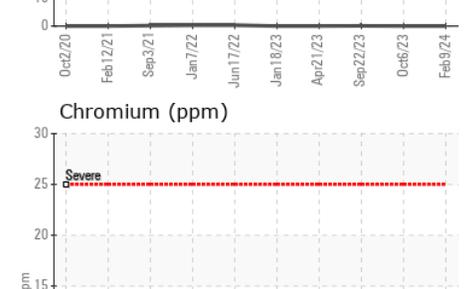
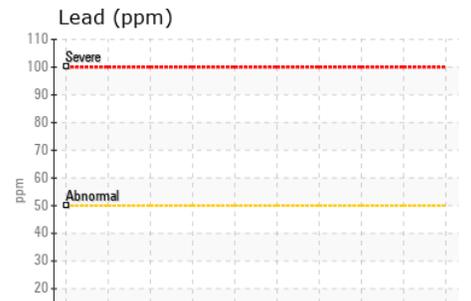
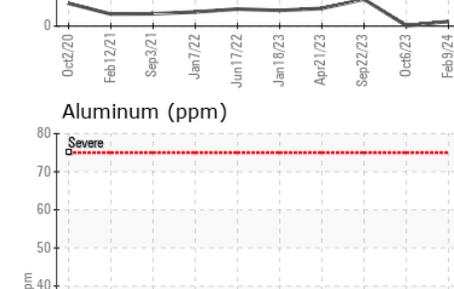
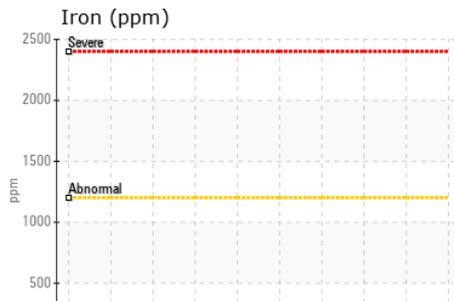
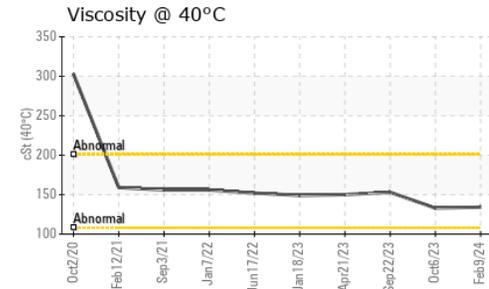
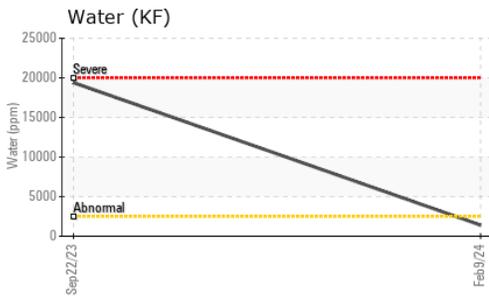
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	10	4	8
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.25	0.140	---	1.94
ppm Water	ppm	ASTM D6304	>2500	1400	---	19400
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	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	0.2%	NEG	0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	<1	3
Boron	ppm	ASTM D5185m		170	187	110
Barium	ppm	ASTM D5185m		12	0	0
Molybdenum	ppm	ASTM D5185m		18	21	2
Manganese	ppm	ASTM D5185m		<1	<1	3
Magnesium	ppm	ASTM D5185m		76	93	12
Calcium	ppm	ASTM D5185m		252	231	56
Phosphorus	ppm	ASTM D5185m		1146	1031	985
Zinc	ppm	ASTM D5185m		157	177	72
Sulfur	ppm	ASTM D5185m		24662	21298	23468
Visc @ 40°C	cSt	ASTM D445		134	133	153



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP430881 **Received** : 14 Feb 2024
Lab Number : 06089132 **Tested** : 15 Feb 2024
Unique Number : 10876577 **Diagnosed** : 16 Feb 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: KF)

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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)