



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL



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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

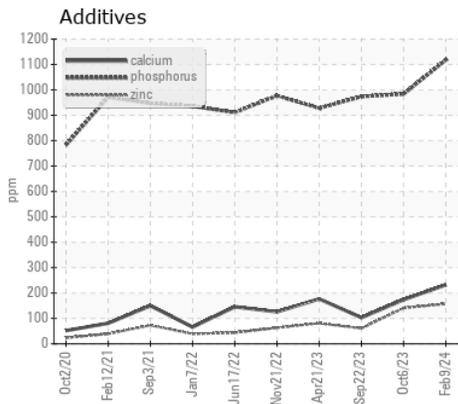
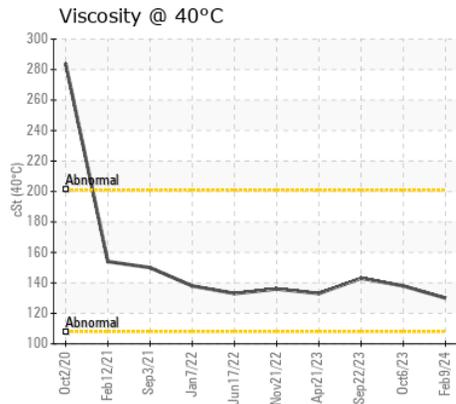
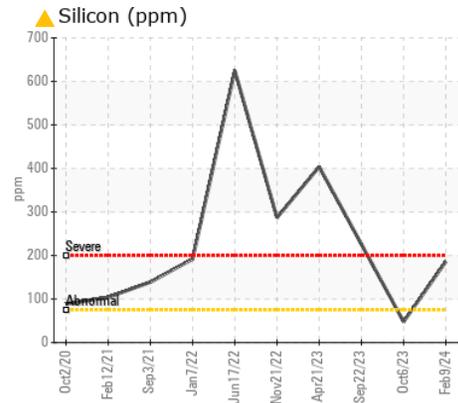
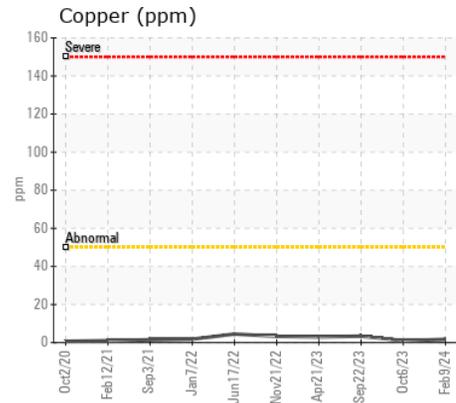
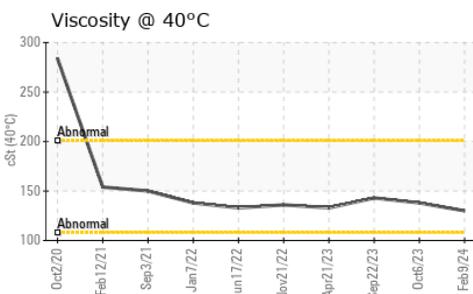
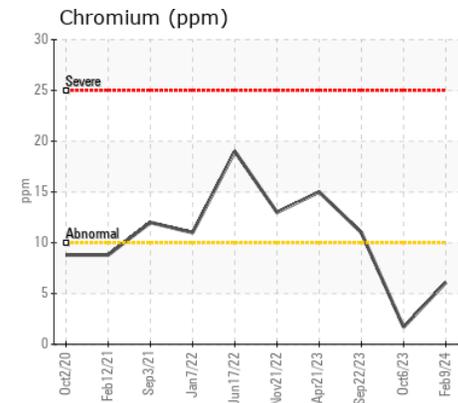
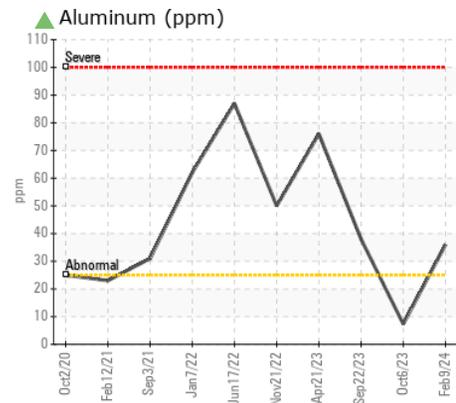
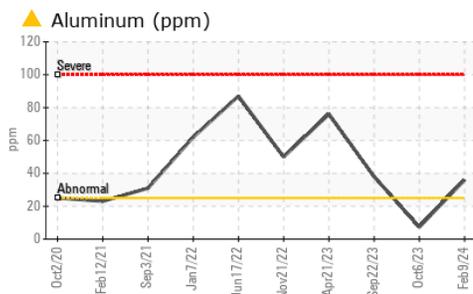
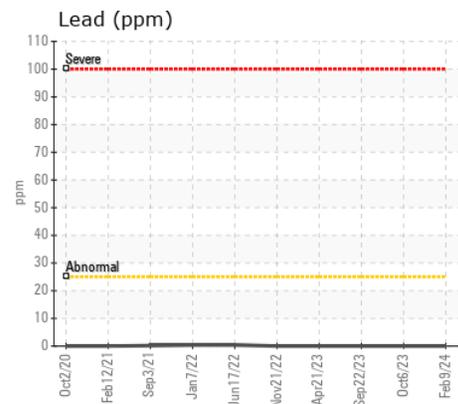
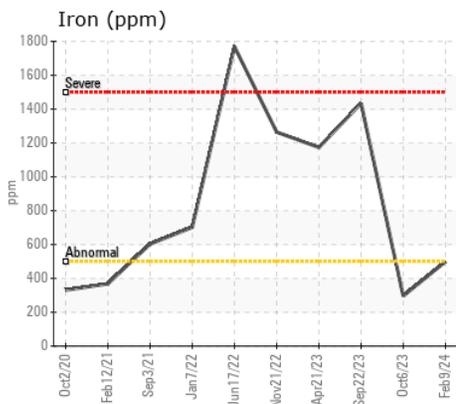
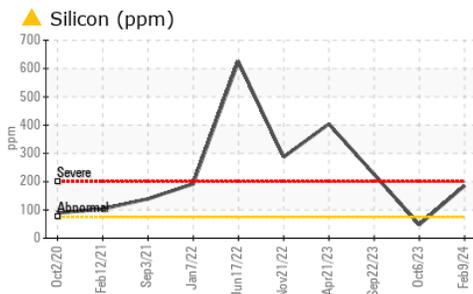
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP430875	VCP415153	VCP421721
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				ABNORMAL	NORMAL	SEVERE

Iron	ppm	ASTM D5185m	>500	499	296	▲ 1434
Chromium	ppm	ASTM D5185m	>10	6	2	▲ 11
Nickel	ppm	ASTM D5185m	>10	<1	0	1
Titanium	ppm	ASTM D5185m		4	1	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	▲ 36	7	▲ 38
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	2	1	3
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	MODER	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 186	48	◆ 226
Potassium	ppm	ASTM D5185m	>20	4	2	8
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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

Sodium	ppm	ASTM D5185m		0	1	3
Boron	ppm	ASTM D5185m		134	135	139
Barium	ppm	ASTM D5185m		12	0	0
Molybdenum	ppm	ASTM D5185m		17	16	6
Manganese	ppm	ASTM D5185m		3	2	9
Magnesium	ppm	ASTM D5185m		77	70	27
Calcium	ppm	ASTM D5185m		232	174	103
Phosphorus	ppm	ASTM D5185m		1118	984	974
Zinc	ppm	ASTM D5185m		157	141	61
Sulfur	ppm	ASTM D5185m		24113	20458	22282
Visc @ 40°C	cSt	ASTM D445		130	138	143



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP430875
Lab Number : 06089130
Unique Number : 10876575
Test Package : MOB 1

Received : 14 Feb 2024
Tested : 15 Feb 2024
Diagnosed : 16 Feb 2024 - Jonathan Hester

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 US 35207

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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)