



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area

[A12681]

Machine Id

VOLVO ECR235CL 110022

Component

Rear Right Final Drive

Fluid

MOBIL MOBILUBE HD PLUS 85W140 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP452780	VCP354072	VCP341022
Sample Date		Client Info		16 May 2024	26 Aug 2022	07 Dec 2021
Machine Age	hrs	Client Info		10505	9785	9125
Oil Age	hrs	Client Info		700	2000	1500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	SEVERE	SEVERE

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>2535	▲ 1985	▲ 1133	▲ 3915
Chromium	ppm	ASTM D5185m	>35	14	9	▲ 35
Nickel	ppm	ASTM D5185m	>4	2	0	4
Titanium	ppm	ASTM D5185m	>15	8	7	25
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>185	● 67	● 67	● 208
Lead	ppm	ASTM D5185m	>4	<1	<1	3
Copper	ppm	ASTM D5185m	>5	6	3	10
Tin	ppm	ASTM D5185m	>5	0	0	3
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

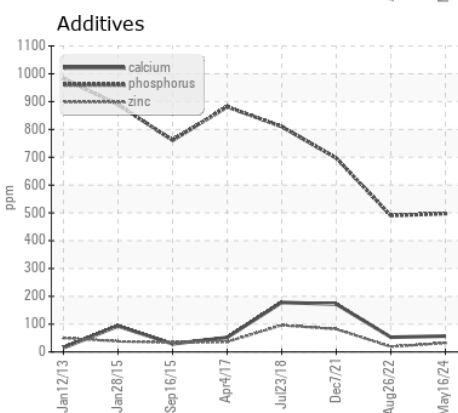
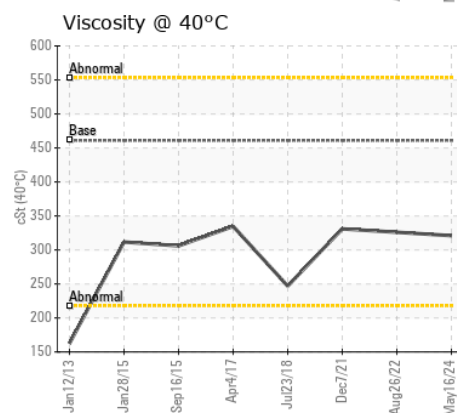
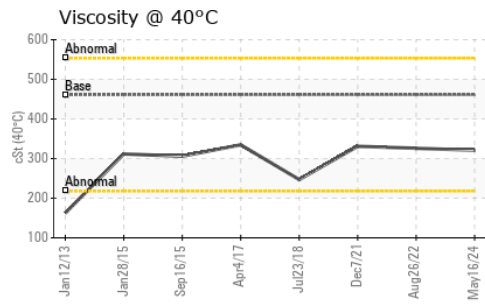
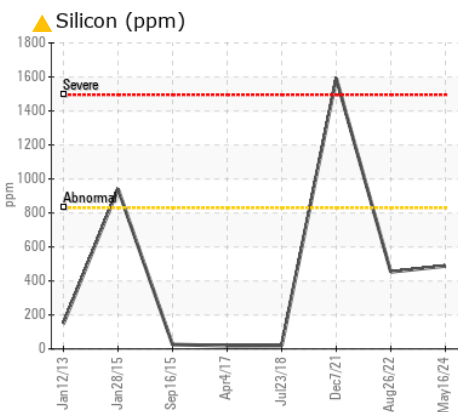
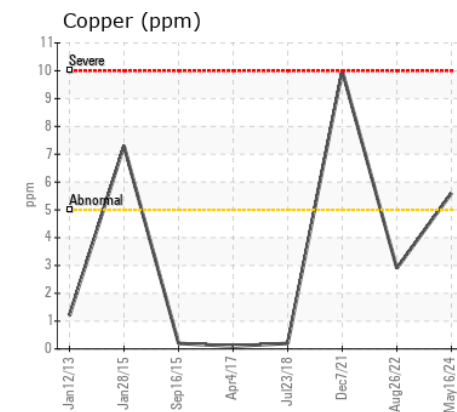
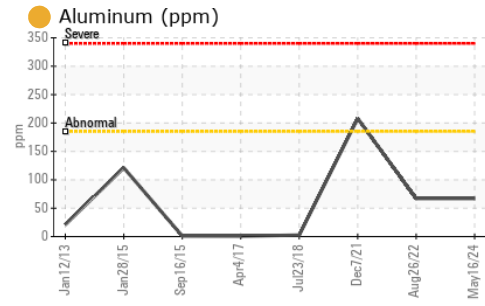
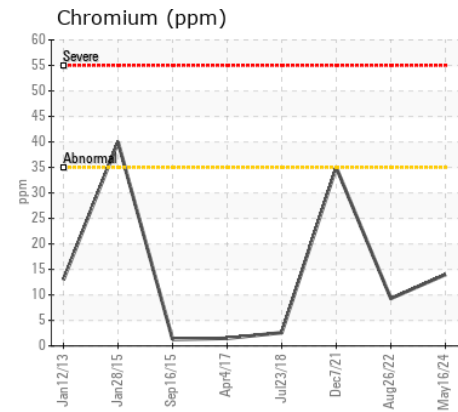
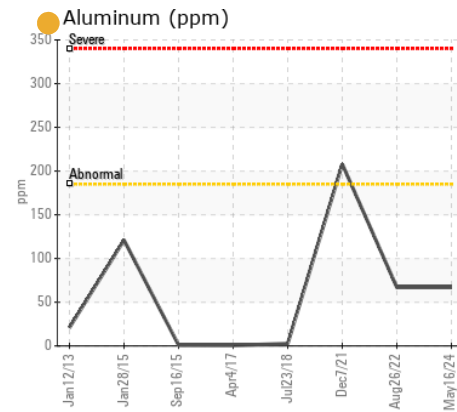
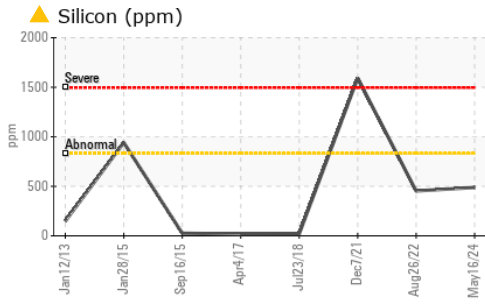
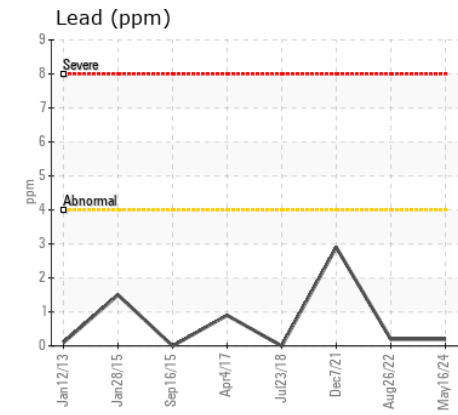
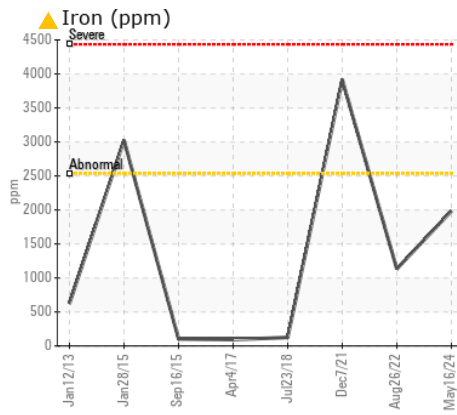
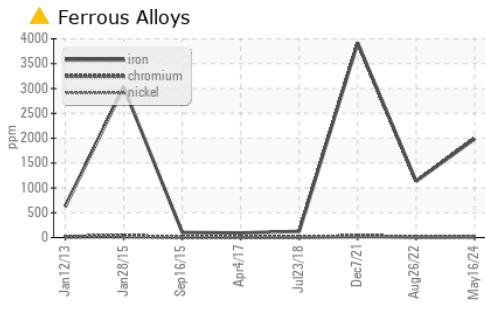
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>830	▲ 488	▲ 453	▲ 1592
Potassium	ppm	ASTM D5185m	>20	25	23	93
Water		WC Method	>0.2	NEG	NEG	NEG
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		7	4	26
Boron	ppm	ASTM D5185m		48	66	100
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	2	7
Manganese	ppm	ASTM D5185m		13	8	29
Magnesium	ppm	ASTM D5185m		15	13	50
Calcium	ppm	ASTM D5185m		57	53	172
Phosphorus	ppm	ASTM D5185m		497	490	697
Zinc	ppm	ASTM D5185m		32	19	82
Sulfur	ppm	ASTM D5185m		22777	21141	25056
Visc @ 40°C	cSt	ASTM D445	461	321	326	331



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP452780
Lab Number : 06192580
Unique Number : 11049332
Test Package : MOB 1
Received : 28 May 2024
Tested : 29 May 2024
Diagnosed : 30 May 2024 - Don Baldrige

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Certificate L2367
 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)