



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL

SEVERE

NORMAL



Area
[W02008233]
Machine Id
VOLVO EC300E 313052
Component
Rear Right Final Drive
Fluid
MOBIL MOBILUBE HD 85W140 (--- 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. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP447924	VCP319135	VCP319455
Sample Date		Client Info		07 May 2024	15 Dec 2023	27 Apr 2022
Machine Age	hrs	Client Info		6650	6051	3982
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		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 728	▲ 739	▲ 512
Chromium	ppm	ASTM D5185m	>10	9	9	6
Nickel	ppm	ASTM D5185m	>10	1	<1	<1
Titanium	ppm	ASTM D5185m		10	4	4
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	● 74	● 49	● 52
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>50	1	2	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

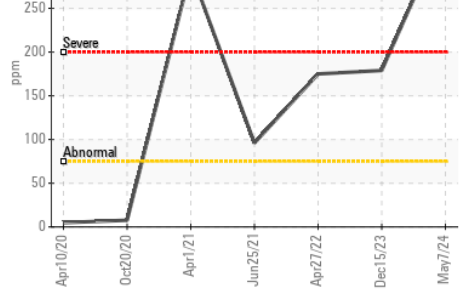
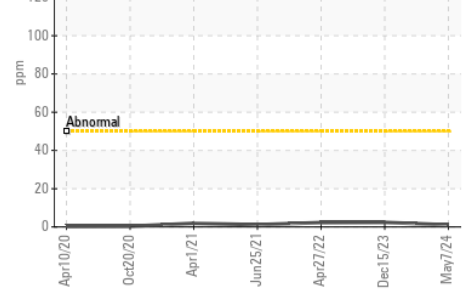
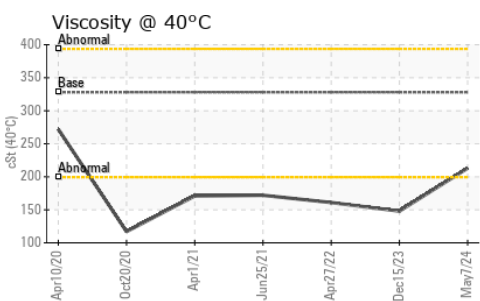
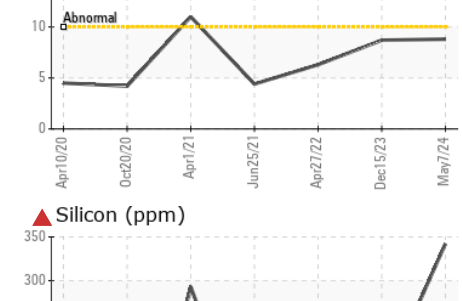
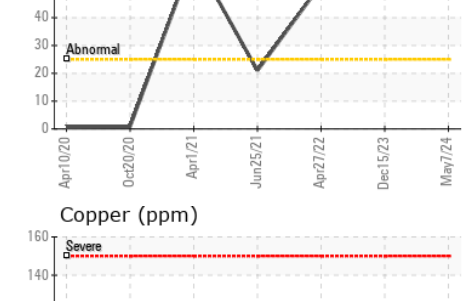
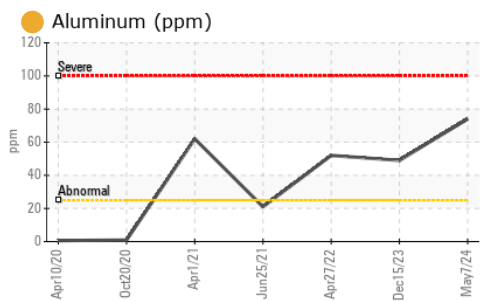
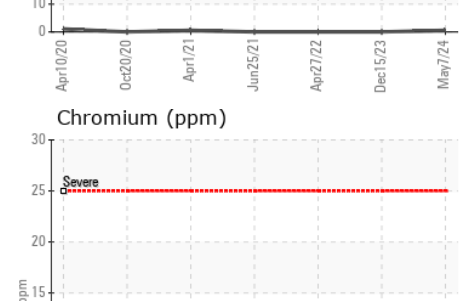
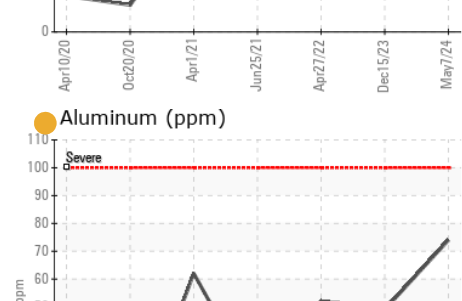
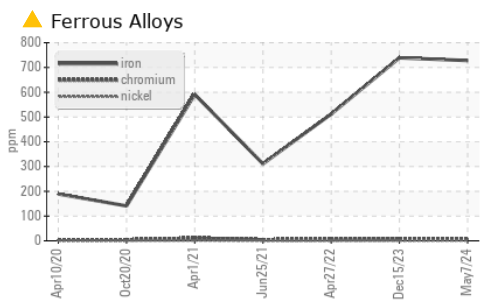
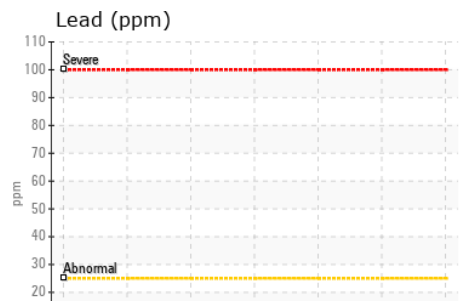
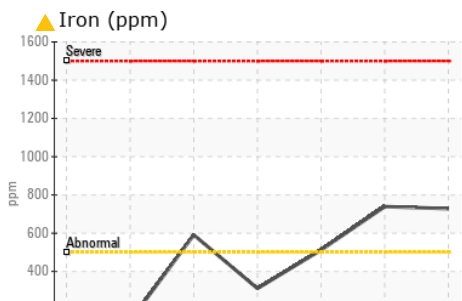
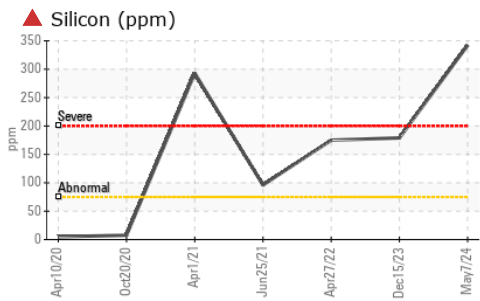
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 342	▲ 179	▲ 175
Potassium	ppm	ASTM D5185m	>20	21	13	15
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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		4	2	2
Boron	ppm	ASTM D5185m		131	138	143
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		9	17	17
Manganese	ppm	ASTM D5185m		5	6	4
Magnesium	ppm	ASTM D5185m		82	186	144
Calcium	ppm	ASTM D5185m		222	506	531
Phosphorus	ppm	ASTM D5185m		1072	1064	939
Zinc	ppm	ASTM D5185m		179	370	317
Sulfur	ppm	ASTM D5185m		30280	20758	18587
Visc @ 40°C	cSt	ASTM D445	328	213	148	161



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP447924 **Received** : 09 May 2024
Lab Number : 06174287 **Tested** : 10 May 2024
Unique Number : 11020340 **Diagnosed** : 13 May 2024 - Angela Borella
Test Package : MOB 1

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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)