



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
[W02008491]
Machine Id
VOLVO EC350 314266
Component
Rear Left Final Drive
Fluid
MOBIL MOBILUBE HD 85W140 (2 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: W02008491)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002363	VCP386332	VCP326977
Sample Date		Client Info		01 Jul 2024	08 Nov 2022	28 Dec 2021
Machine Age	hrs	Client Info		3999	1987	493
Oil Age	hrs	Client Info		2012	1000	493
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	SEVERE	NORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 5804	▲ 1325	241
Chromium	ppm	ASTM D5185m	>10	▲ 45	▲ 25	6
Nickel	ppm	ASTM D5185m	>10	4	4	<1
Titanium	ppm	ASTM D5185m		32	14	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 328	● 218	8
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	9	2	<1
Tin	ppm	ASTM D5185m	>10	1	<1	0
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

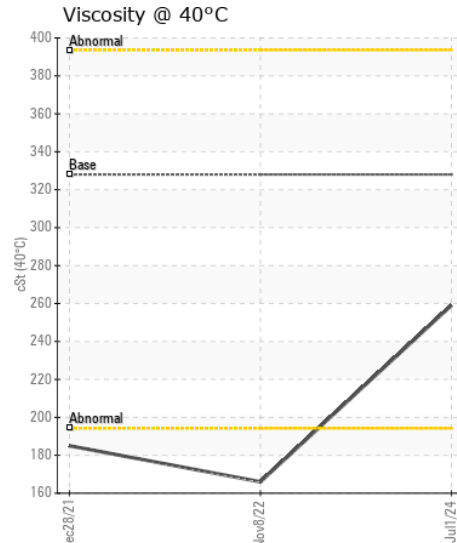
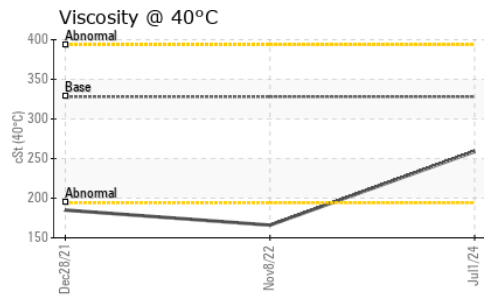
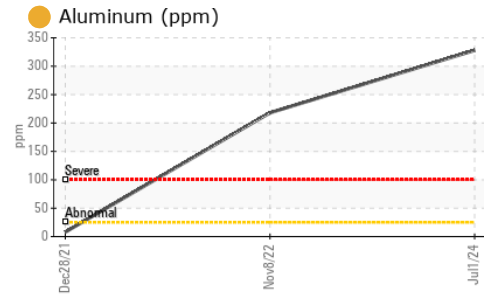
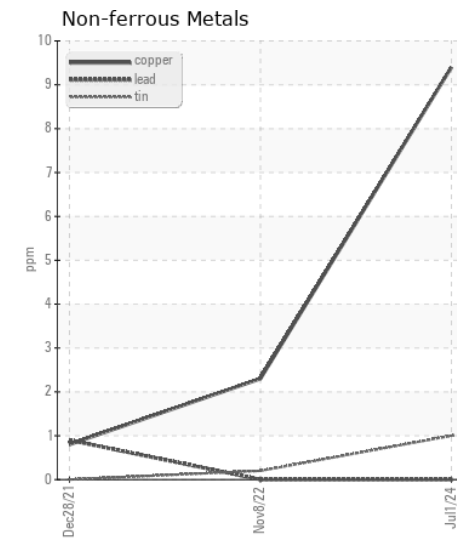
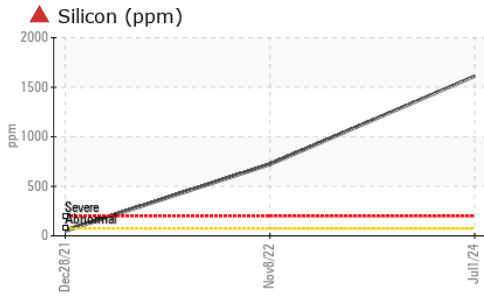
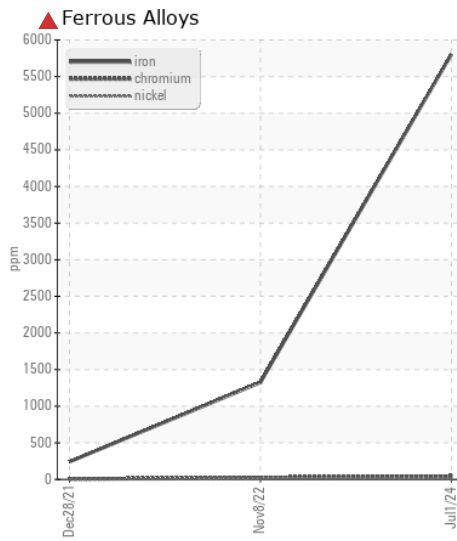
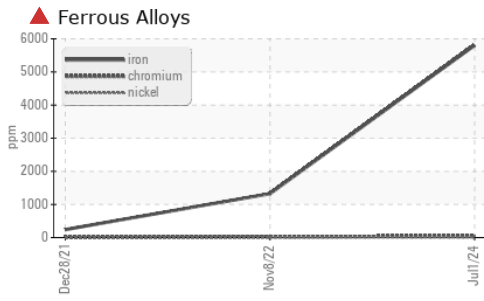
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 1612	▲ 721	48
Potassium	ppm	ASTM D5185m	>20	94	56	3
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		44	10	2
Boron	ppm	ASTM D5185m		67	98	3
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		16	15	<1
Manganese	ppm	ASTM D5185m		38	13	4
Magnesium	ppm	ASTM D5185m		143	151	2
Calcium	ppm	ASTM D5185m		340	522	17
Phosphorus	ppm	ASTM D5185m		685	800	300
Zinc	ppm	ASTM D5185m		232	288	3
Sulfur	ppm	ASTM D5185m		35869	21096	12504
Visc @ 40°C	cSt	ASTM D445	328	259	166	185



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002363
Lab Number : 06226835
Unique Number : 11110328
Test Package : CONST

Received : 02 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 05 Jul 2024 - Don Baldrige

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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)