



ASCENDUM

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area

[SCM]

Machine Id

VOLVO EC350EL 314072

Component

Left Final Drive

Fluid

GEAR OIL SAE 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. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0011162	ASC0006479	---
Sample Date		Client Info		30 Jun 2024	15 Dec 2023	---
Machine Age	hrs	Client Info		5226	3991	---
Oil Age	hrs	Client Info		500	3991	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>1200	▲ 2369	▲ 2110	---
Chromium	ppm	ASTM D5185m	>10	▲ 16	▲ 14	---
Nickel	ppm	ASTM D5185m	>10	1	1	---
Titanium	ppm	ASTM D5185m		5	3	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>100	● 52	● 27	---
Lead	ppm	ASTM D5185m	>10	0	0	---
Copper	ppm	ASTM D5185m	>200	5	4	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

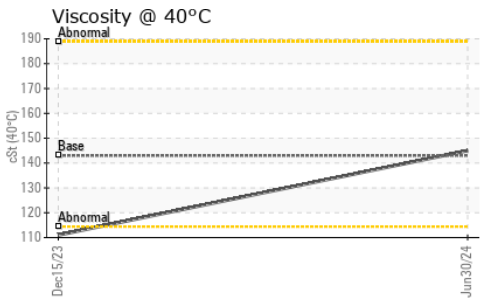
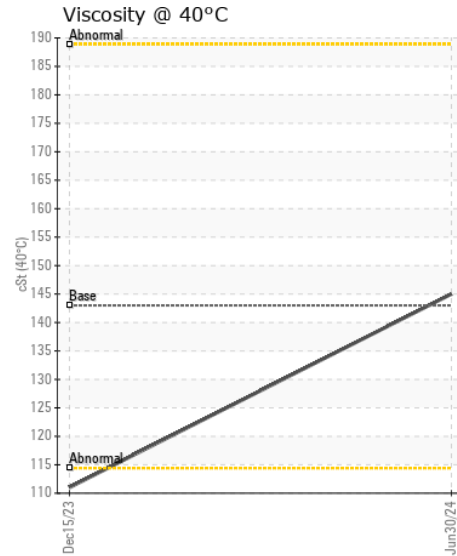
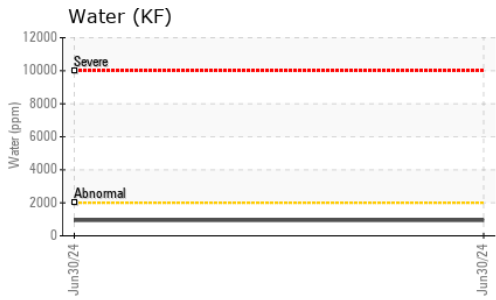
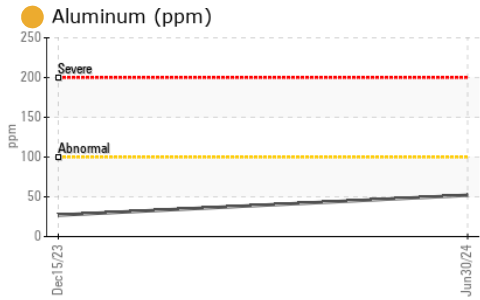
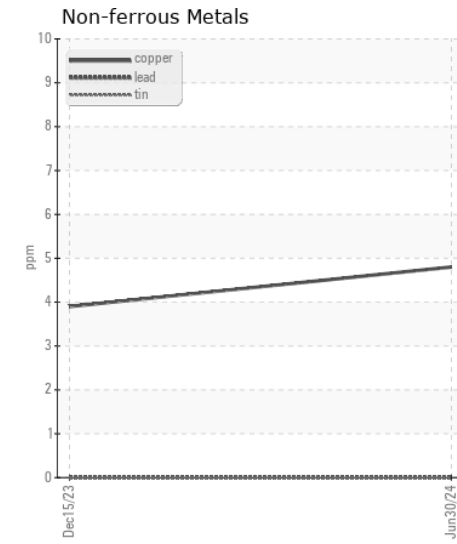
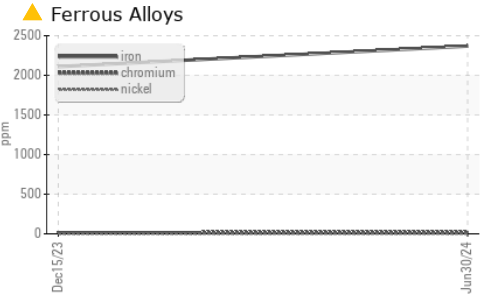
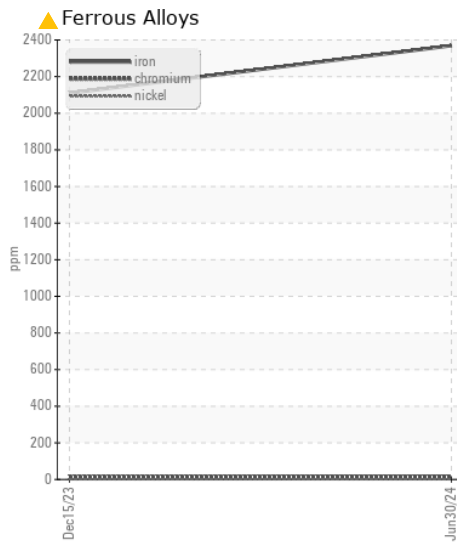
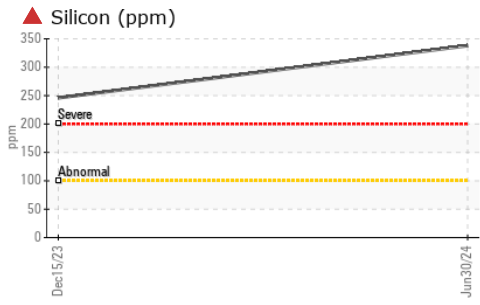
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>100	▲ 338	▲ 246	---
Potassium	ppm	ASTM D5185m	>20	10	6	---
Water	%	ASTM D6304	>0.2	0.094	---	---
ppm Water	ppm	ASTM D6304	>2000	940	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	0	1	---
Boron	ppm	ASTM D5185m	400	156	94	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	2	<1	---
Manganese	ppm	ASTM D5185m		12	11	---
Magnesium	ppm	ASTM D5185m	12	0	4	---
Calcium	ppm	ASTM D5185m	150	64	6	---
Phosphorus	ppm	ASTM D5185m	1650	1072	1414	---
Zinc	ppm	ASTM D5185m	125	31	6	---
Sulfur	ppm	ASTM D5185m	22500	27030	32032	---
Visc @ 40°C	cSt	ASTM D445	143	145	111	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : ASC0011162

Lab Number : 06226619

Unique Number : 11110112

Test Package : CONST (Additional Tests: KF)

Received : 02 Jul 2024

Tested : 03 Jul 2024

Diagnosed : 05 Jul 2024 - Don Baldrige

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)

113 - ASCENDUM MACHINERY INC - GARNER

3561 JONES SAUSAGE ROAD

GARNER, NC

US 27529

Contact: RYAN ZEBALLOS

ryan.zeballos@ascendummachinery.com

T:

F: (919)661-9038