



ASCENDUM

OIL ANALYSIS REPORT



Area
Ascendum Machinery
Machine Id
VOLVO EC350E 350E310505
Component
Right Travel
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007294	ASC0001284	VCP0006565
Sample Date		Client Info		22 Feb 2024	11 Sep 2023	16 May 2023
Machine Age	hrs	Client Info		7365	6702	6194
Oil Age	hrs	Client Info		663	508	6194
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	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	997	659	546
Chromium	ppm	ASTM D5185m	>20	16	13	12
Nickel	ppm	ASTM D5185m	>5	2	<1	1
Titanium	ppm	ASTM D5185m		3	2	1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>100	▲ 34	▲ 30	13
Lead	ppm	ASTM D5185m	>50	<1	<1	0
Copper	ppm	ASTM D5185m	>50	2	2	1
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

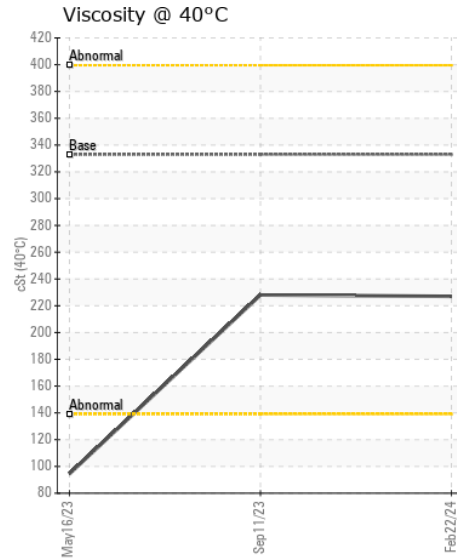
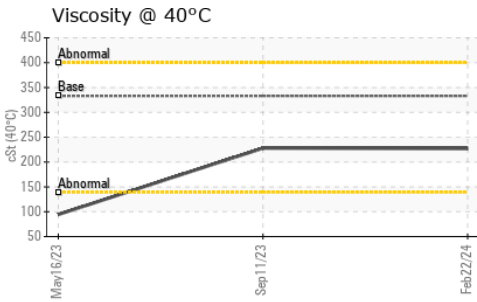
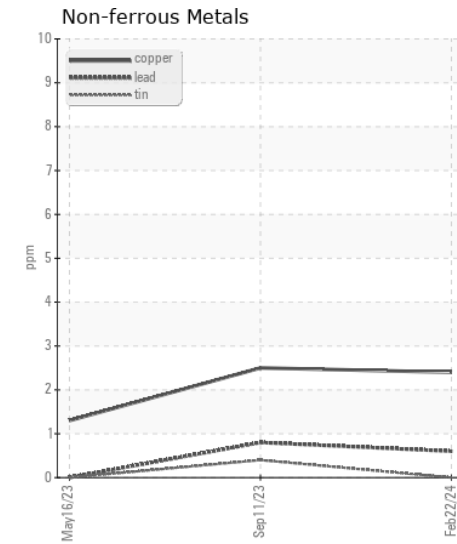
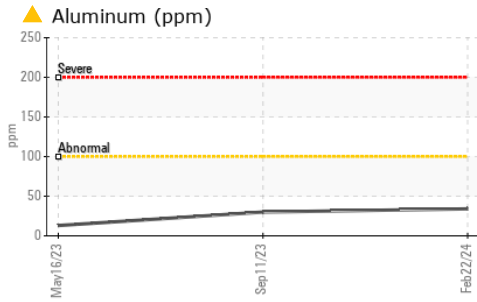
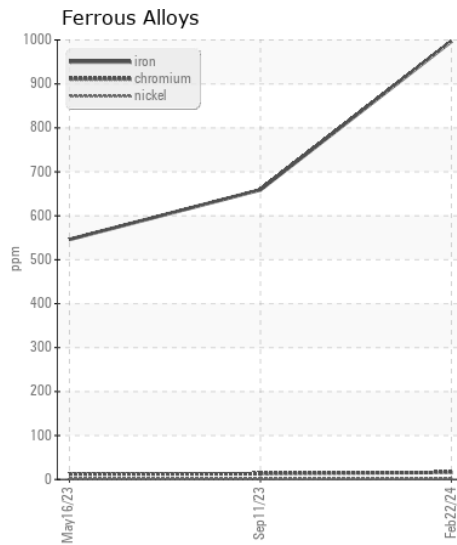
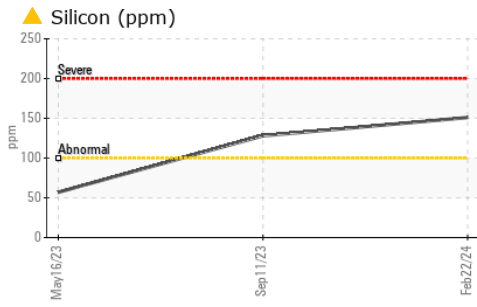
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>100	▲ 151	▲ 128	57
Potassium	ppm	ASTM D5185m	>20	5	5	3
Water		WC Method	>0.25	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	>0.25	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	6	1
Boron	ppm	ASTM D5185m	111	154	145	59
Barium	ppm	ASTM D5185m	0.0	6	0	2
Molybdenum	ppm	ASTM D5185m	0.9	2	1	1
Manganese	ppm	ASTM D5185m	0.0	10	7	6
Magnesium	ppm	ASTM D5185m	39	5	6	3
Calcium	ppm	ASTM D5185m	93	14	11	▲ 8
Phosphorus	ppm	ASTM D5185m	920	968	1071	1121
Zinc	ppm	ASTM D5185m	104	14	0	▲ 18
Sulfur	ppm	ASTM D5185m	20179	27722	30661	21639
Visc @ 40°C	cSt	ASTM D445	333	227	228	▲ 94.5



Certificate L2367

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

Sample No. : ASC0007294

Lab Number : 06099463

Unique Number : 10897693

Test Package : CONST

Received : 23 Feb 2024

Tested : 26 Feb 2024

Diagnosed : 27 Feb 2024 - Don Baldrige

CAROLINA PRECISION GRADING

7427 MATTHEWS MINT HILL ROAD

CHARLOTTE, NC

US 28227

Contact: Service Manager

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)

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