



ASCENDUM

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0007278	ASC0001291	VCP0006566
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		1171	508	1081
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	2	327	372
Chromium	ppm	ASTM D5185m	>10	<1	5	6
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	1
Lead	ppm	ASTM D5185m	>50	<1	<1	<1
Copper	ppm	ASTM D5185m	>50	1	11	18
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

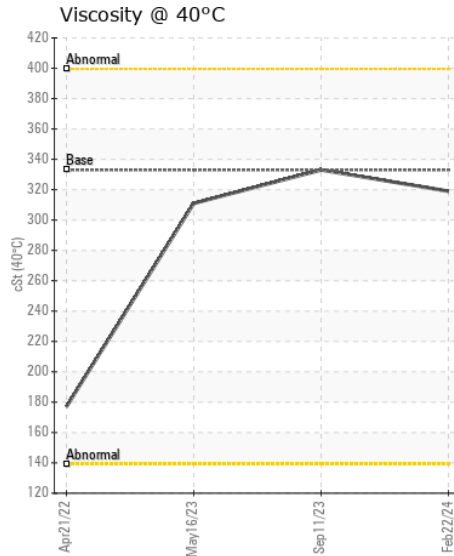
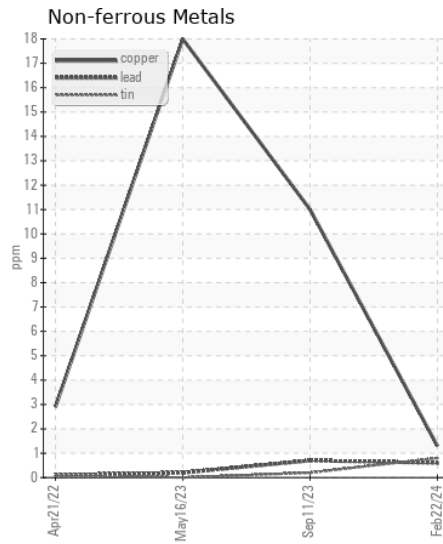
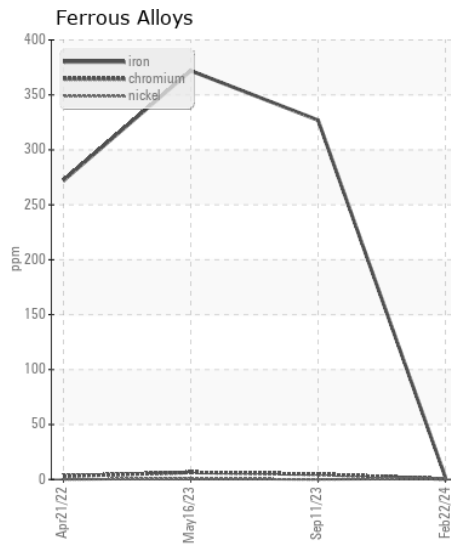
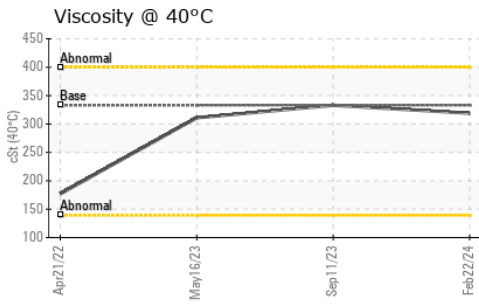
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	1	7	12
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
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	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	● 0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	2	3
Boron	ppm	ASTM D5185m	111	194	140	129
Barium	ppm	ASTM D5185m	0.0	5	0	<1
Molybdenum	ppm	ASTM D5185m	0.9	2	<1	<1
Manganese	ppm	ASTM D5185m	0.0	<1	5	5
Magnesium	ppm	ASTM D5185m	39	11	2	6
Calcium	ppm	ASTM D5185m	93	62	17	82
Phosphorus	ppm	ASTM D5185m	920	888	1022	952
Zinc	ppm	ASTM D5185m	104	44	3	33
Sulfur	ppm	ASTM D5185m	20179	26614	33288	30191
Visc @ 40°C	cSt	ASTM D445	333	319	333	311



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0007278
Lab Number : 06099461
Unique Number : 10897691
Test Package : CONST

Received : 23 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 26 Feb 2024 - Wes Davis

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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