



ASCENDUM

OIL ANALYSIS REPORT



Area

Ascendum Machinery

Machine Id

VOLVO EC350E 310863

Component

Left Travel

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

WEAR

NORMAL

CONTAMINATION

NORMAL

FLUID CONDITION

NORMAL

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001736	ASC0001335	VCP0005407
Sample Date		Client Info		15 Jan 2024	11 Sep 2023	15 Mar 2023
Machine Age	hrs	Client Info		4726	4195	3532
Oil Age	hrs	Client Info		531	663	3532
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	Changed
Filter Changed		Client Info		None	N/A	N/A
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	300	5263	10871
Chromium	ppm	ASTM D5185m	>20	2	47	109
Nickel	ppm	ASTM D5185m	>5	0	4	14
Titanium	ppm	ASTM D5185m		<1	14	43
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>100	2	106	304
Lead	ppm	ASTM D5185m	>50	0	2	1
Copper	ppm	ASTM D5185m	>50	<1	12	22
Tin	ppm	ASTM D5185m	>5	0	1	0
Vanadium	ppm	ASTM D5185m		0	<1	1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

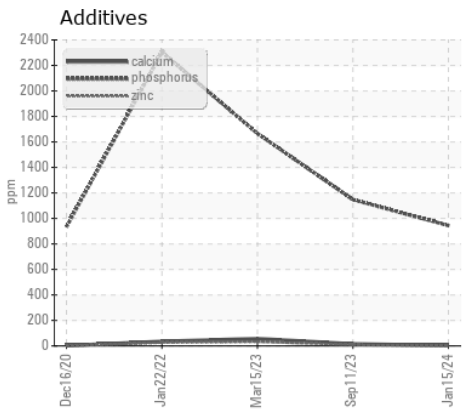
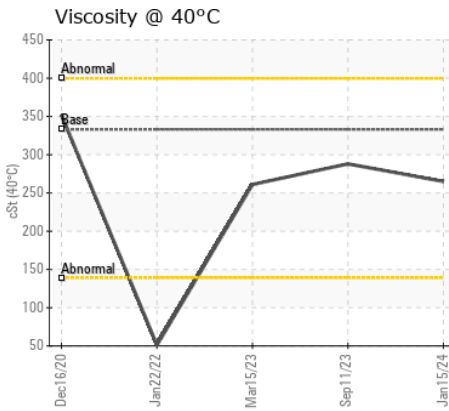
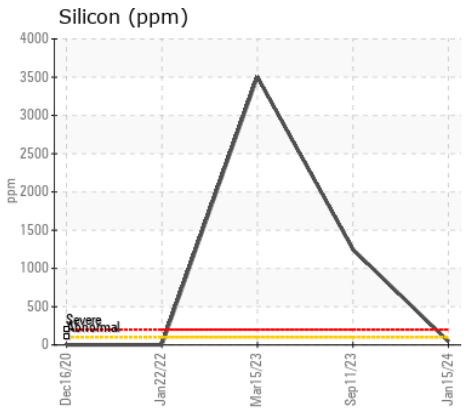
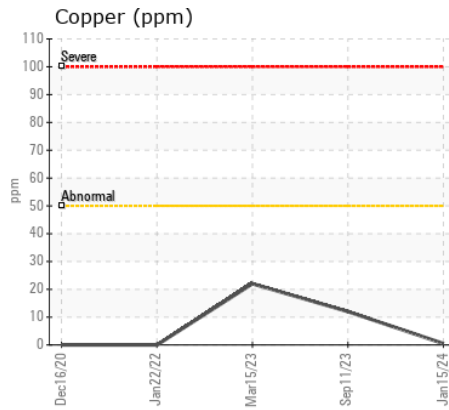
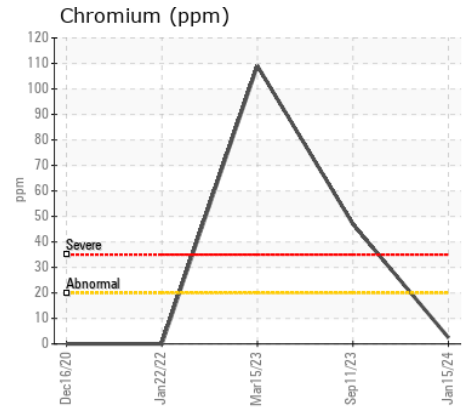
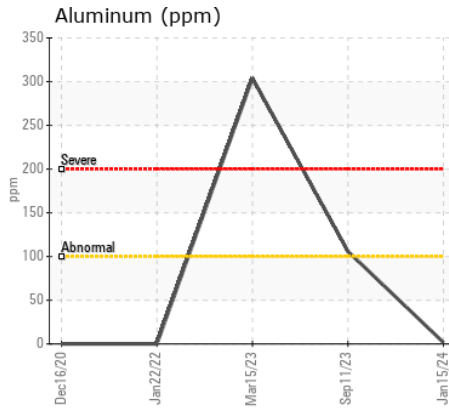
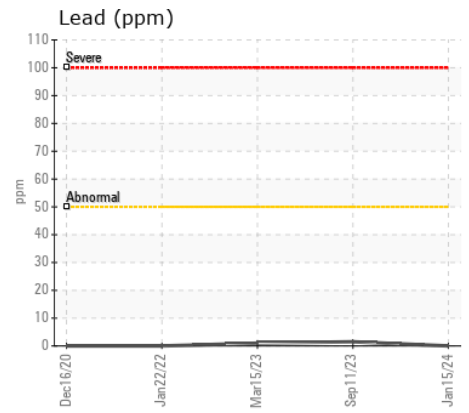
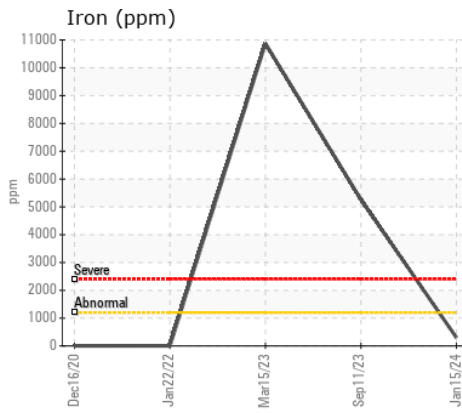
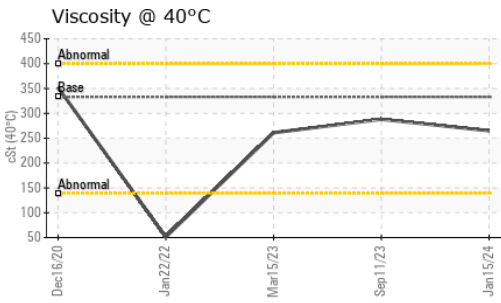
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	46	1250	3503
Potassium	ppm	ASTM D5185m	>20	1	12	28
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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		0	4	4
Boron	ppm	ASTM D5185m	111	141	143	199
Barium	ppm	ASTM D5185m	0.0	3	0	0
Molybdenum	ppm	ASTM D5185m	0.9	0	8	16
Manganese	ppm	ASTM D5185m	0.0	2	34	71
Magnesium	ppm	ASTM D5185m	39	0	9	13
Calcium	ppm	ASTM D5185m	93	4	16	58
Phosphorus	ppm	ASTM D5185m	920	944	1148	1666
Zinc	ppm	ASTM D5185m	104	0	7	33
Sulfur	ppm	ASTM D5185m	20179	30991	38419	59988
Visc @ 40°C	cSt	ASTM D445	333	265	288	261



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001736 **Received** : 17 Jan 2024
Lab Number : 06063190 **Diagnosed** : 19 Jan 2024
Unique Number : 10834572 **Diagnostician** : Don Baldridge
Test Package : MOBCE

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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F: