



ASCENDUM

OIL ANALYSIS REPORT



Area

Ascendum Machinery

Machine Id

VOLVO EC350E 310863

Component

Right Travel

Fluid

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

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE

SEVERE

NORMAL

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

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

FLUID CONDITION

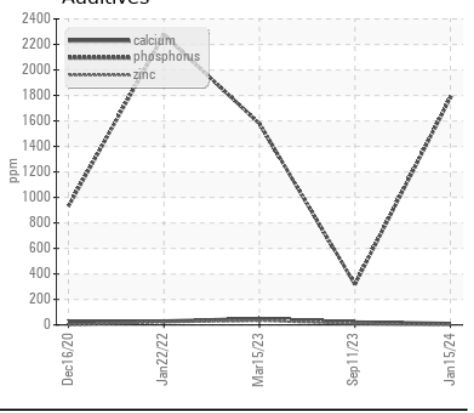
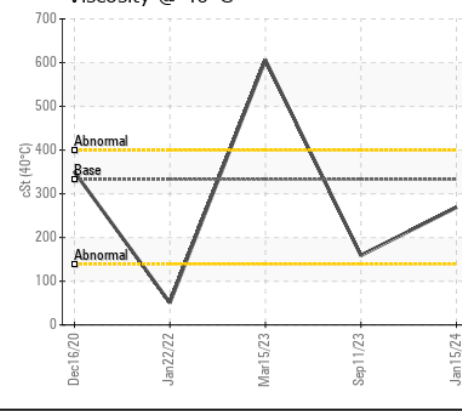
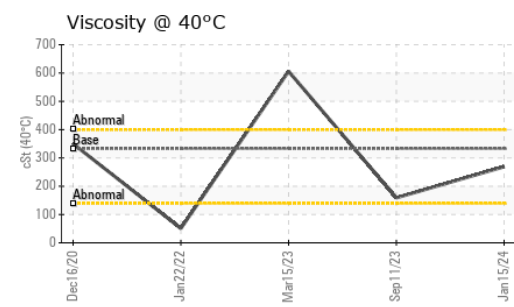
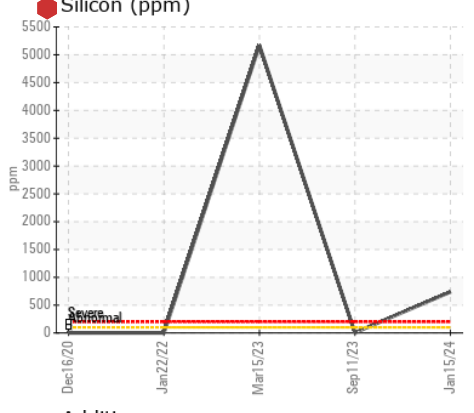
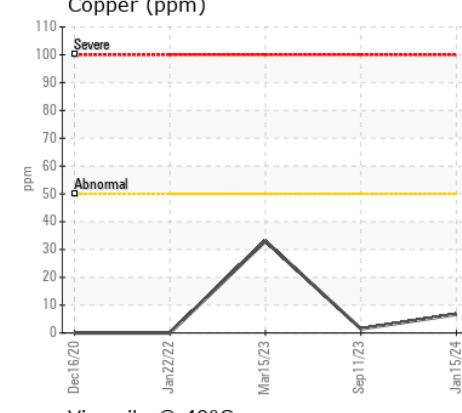
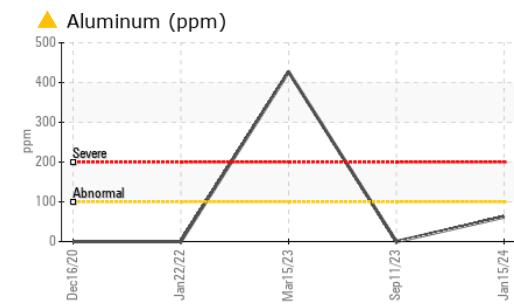
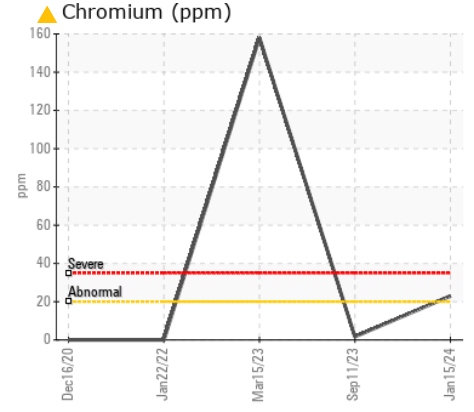
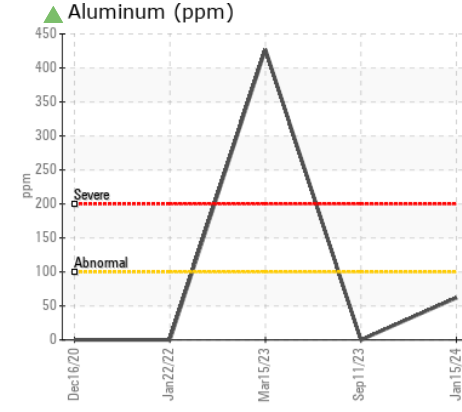
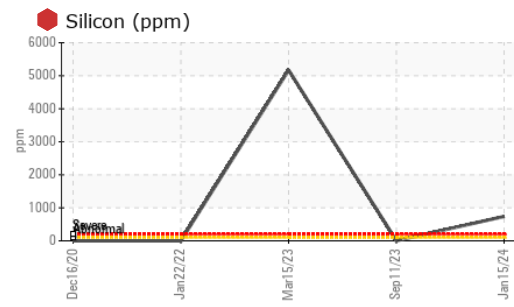
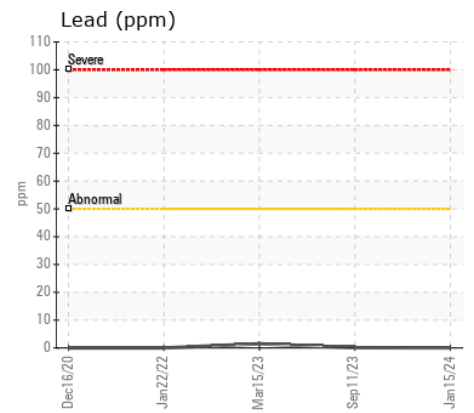
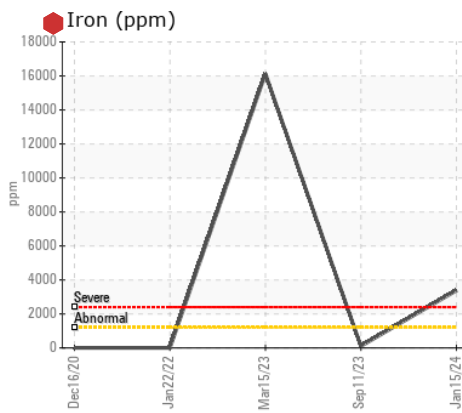
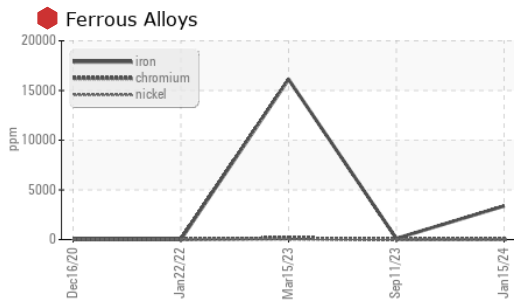
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0001735	ASC0001336	VCP0005408
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 Changed	Changed	Changed
Filter Changed		Client Info		None	N/A	N/A
Sample Status				SEVERE	NORMAL	SEVERE

Iron	ppm	ASTM D5185m	>1200	3380	105	16124
Chromium	ppm	ASTM D5185m	>20	23	2	158
Nickel	ppm	ASTM D5185m	>5	2	0	21
Titanium	ppm	ASTM D5185m		8	0	57
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>100	62	0	427
Lead	ppm	ASTM D5185m	>50	0	<1	2
Copper	ppm	ASTM D5185m	>50	7	2	33
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>100	738	5	5170
Potassium	ppm	ASTM D5185m	>20	7	3	40
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

Sodium	ppm	ASTM D5185m		0	4	4
Boron	ppm	ASTM D5185m	111	234	0	202
Barium	ppm	ASTM D5185m	0.0	2	0	0
Molybdenum	ppm	ASTM D5185m	0.9	3	<1	24
Manganese	ppm	ASTM D5185m	0.0	22	3	109
Magnesium	ppm	ASTM D5185m	39	2	2	17
Calcium	ppm	ASTM D5185m	93	11	22	50
Phosphorus	ppm	ASTM D5185m	920	1784	319	1579
Zinc	ppm	ASTM D5185m	104	0	8	33
Sulfur	ppm	ASTM D5185m	20179	51619	17255	75285
Visc @ 40°C	cSt	ASTM D445	333	269	159	606



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0001735 **Received** : 17 Jan 2024
Lab Number : 06063194 **Diagnosed** : 19 Jan 2024
Unique Number : 10834576 **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: