



ASCENDUM

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
VOLVO EC350E 314021
Component
Front Left Final Drive
Fluid
GEAR OIL LS 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 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

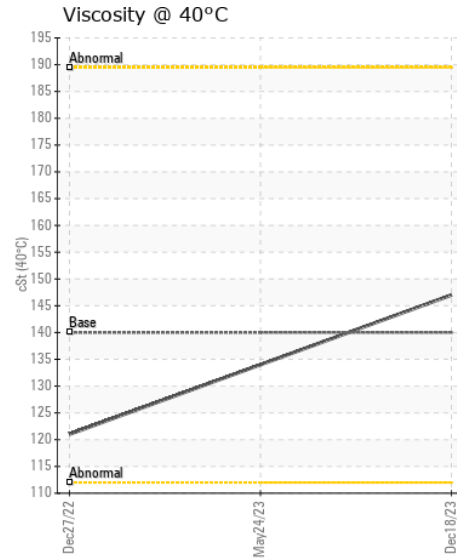
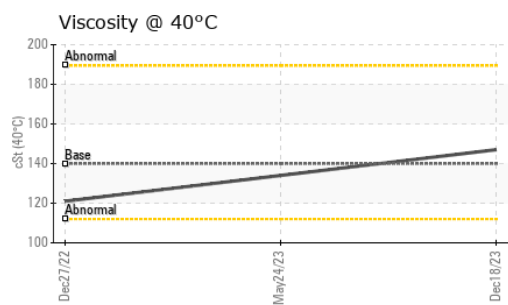
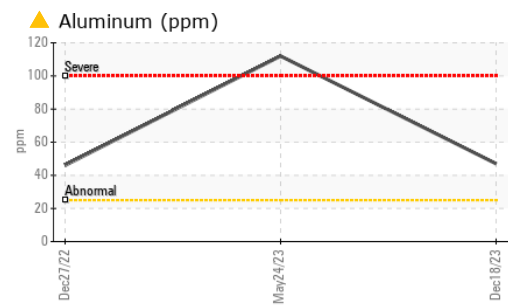
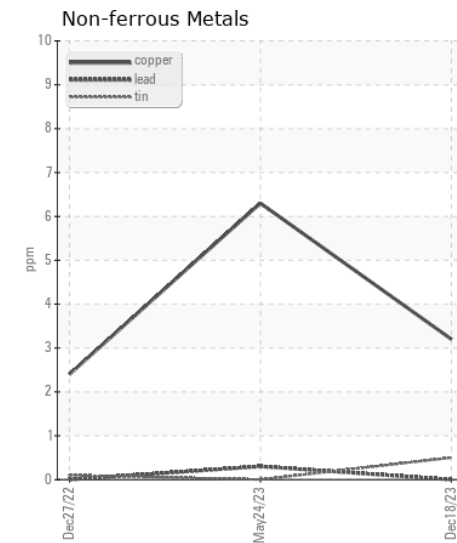
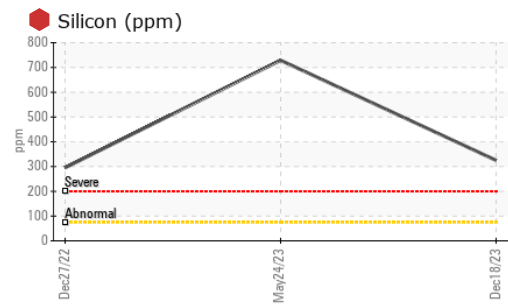
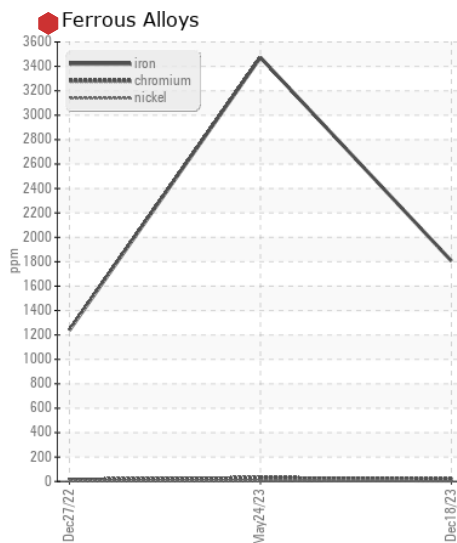
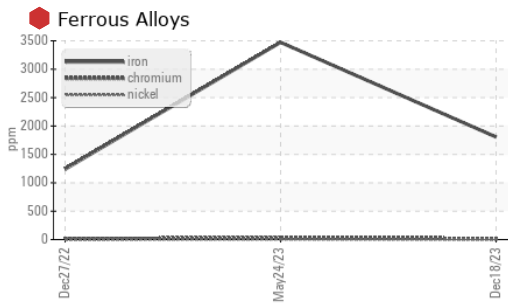
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0006020	VCE119094	VCP395322
Sample Date		Client Info		18 Dec 2023	24 May 2023	27 Dec 2022
Machine Age	hrs	Client Info		6084	5114	4557
Oil Age	hrs	Client Info		970	0	0
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				SEVERE	SEVERE	SEVERE

Iron	ppm	ASTM D5185m	>500	1806	3473	1239
Chromium	ppm	ASTM D5185m	>10	18	29	14
Nickel	ppm	ASTM D5185m	>10	1	5	2
Titanium	ppm	ASTM D5185m		4	8	4
Silver	ppm	ASTM D5185m		0	2	0
Aluminum	ppm	ASTM D5185m	>25	47	112	46
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	3	6	2
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	325	729	295
Potassium	ppm	ASTM D5185m	>20	8	19	6
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		1	2	1
Boron	ppm	ASTM D5185m	150	35	183	190
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	4	2
Manganese	ppm	ASTM D5185m		18	20	8
Magnesium	ppm	ASTM D5185m	10	2	8	5
Calcium	ppm	ASTM D5185m	70	41	353	180
Phosphorus	ppm	ASTM D5185m	2000	803	1210	1137
Zinc	ppm	ASTM D5185m	50	<1	9	10
Sulfur	ppm	ASTM D5185m	20000	37702	36878	25056
Visc @ 40°C	cSt	ASTM D445	140	147	134	121



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0006020 **Received** : 11 Jan 2024
Lab Number : 06058458 **Diagnosed** : 14 Jan 2024
Unique Number : 10829840 **Diagnostician** : Don Baldrige
Test Package : CONST

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Certificate L2367
 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)