



VOLVO

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
[SPM646635-40]
 Machine Id
VOLVO EC350EL 314018
 Component
Rear Left Final Drive
 Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

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.

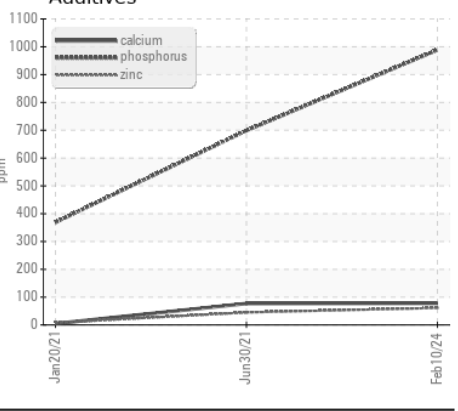
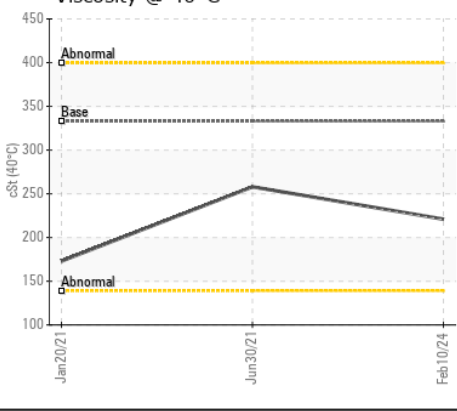
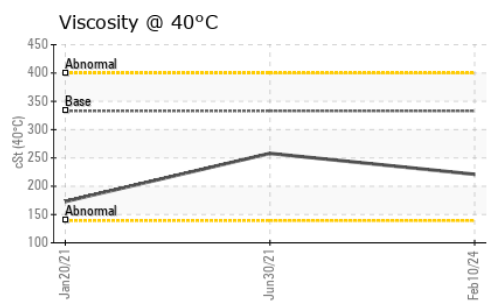
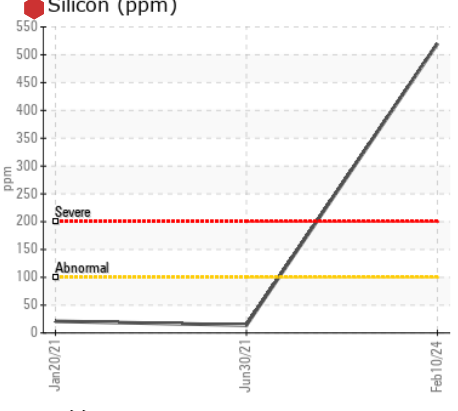
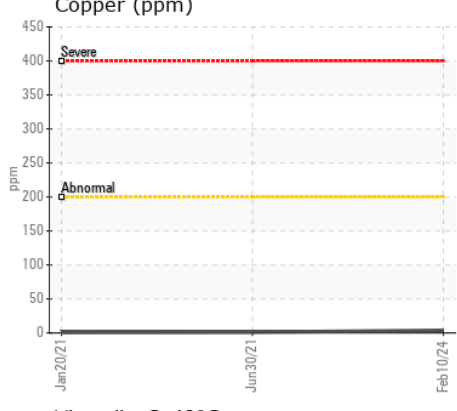
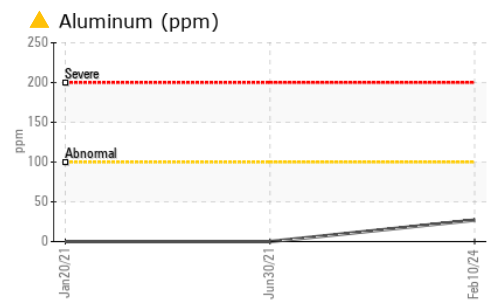
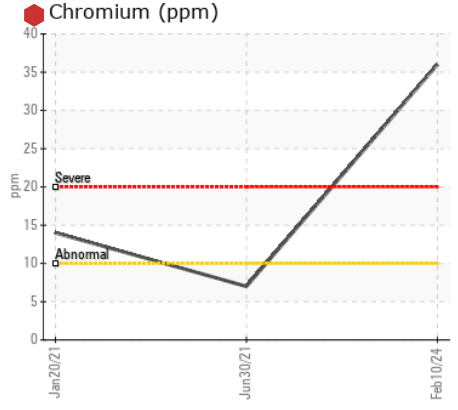
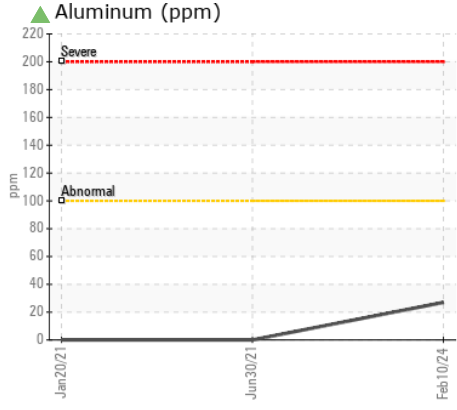
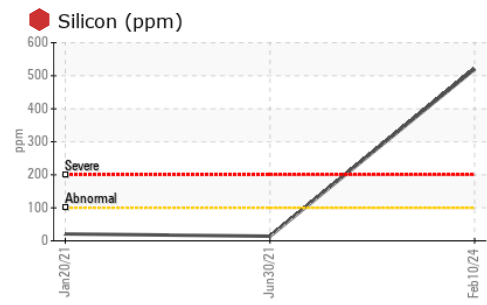
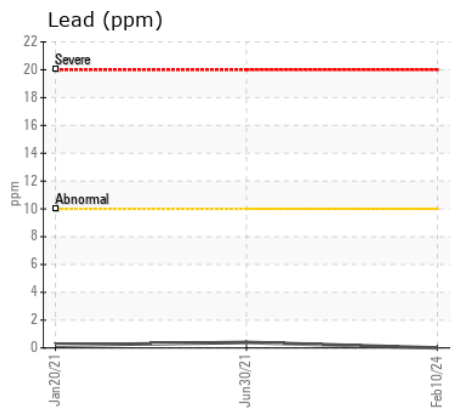
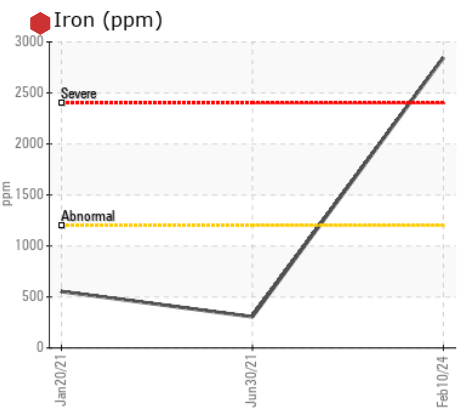
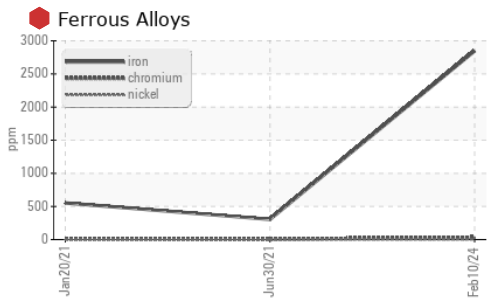
CONTAMINATION

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		VCP421020	VCP323446	VCP302311
Sample Date		Client Info		10 Feb 2024	30 Jun 2021	20 Jan 2021
Machine Age	hrs	Client Info		4219	1857	1299
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>1200	2847	305	553
Chromium	ppm	ASTM D5185m	>10	36	7	14
Nickel	ppm	ASTM D5185m	>10	3	<1	<1
Titanium	ppm	ASTM D5185m		3	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>100	27	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>200	4	1	<1
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>100	520	14	21
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	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	<1	0
Boron	ppm	ASTM D5185m	111	133	121	2
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.9	8	2	1
Manganese	ppm	ASTM D5185m	0.0	21	3	7
Magnesium	ppm	ASTM D5185m	39	25	10	1
Calcium	ppm	ASTM D5185m	93	78	77	5
Phosphorus	ppm	ASTM D5185m	920	989	699	369
Zinc	ppm	ASTM D5185m	104	61	45	8
Sulfur	ppm	ASTM D5185m	20179	30002	15585	12357
Visc @ 40°C	cSt	ASTM D445	333	221	258	173



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP421020 **Received** : 13 Feb 2024
Lab Number : 06088372 **Tested** : 14 Feb 2024
Unique Number : 10875817 **Diagnosed** : 15 Feb 2024 - Sean Felton
Test Package : MOBCE

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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)