



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ATTENTION

Machine Id
VOLVO EC380EL 311273

Component
Rear Left Final Drive

Fluid
VOLVO PREMIUM GEAR OIL 80W-90 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

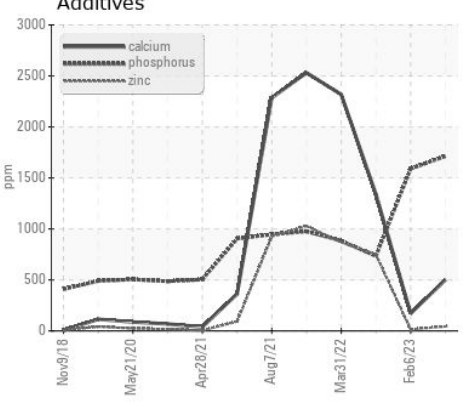
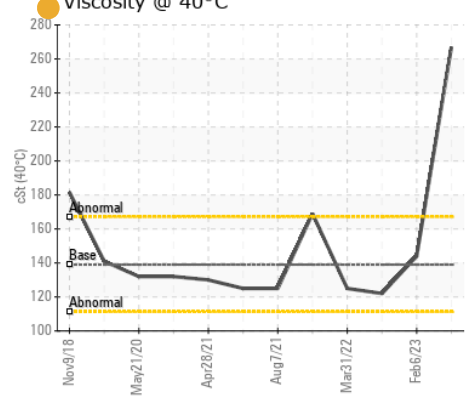
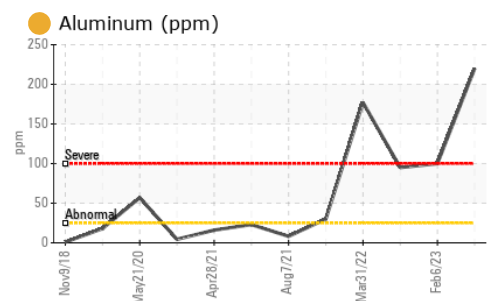
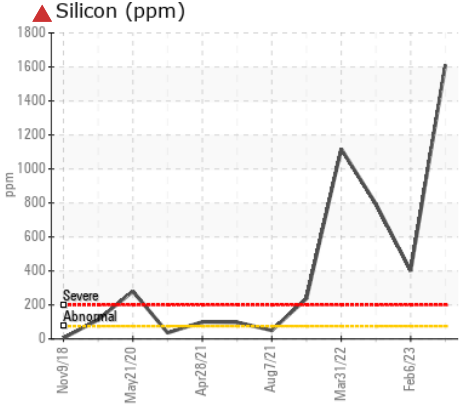
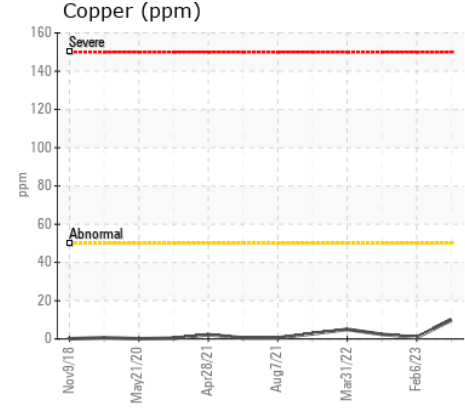
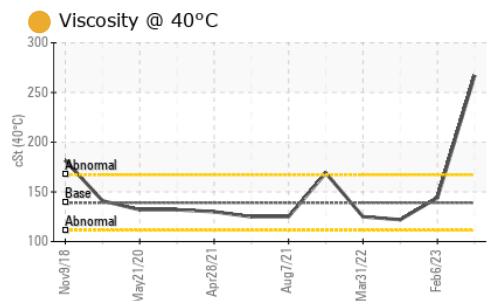
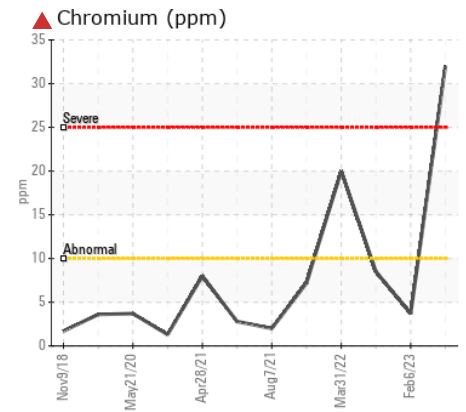
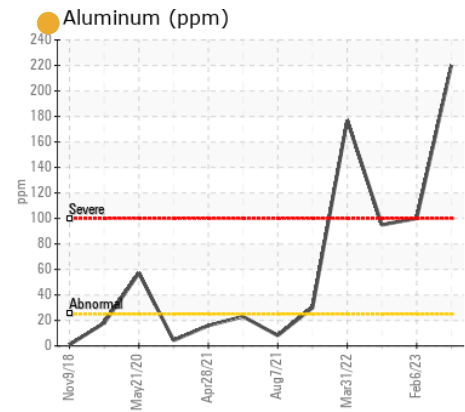
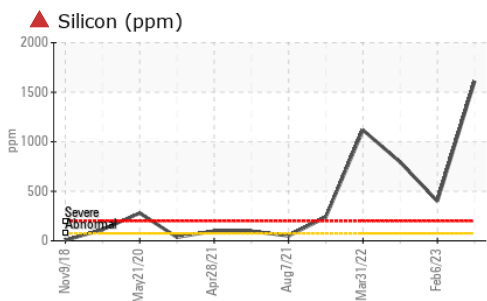
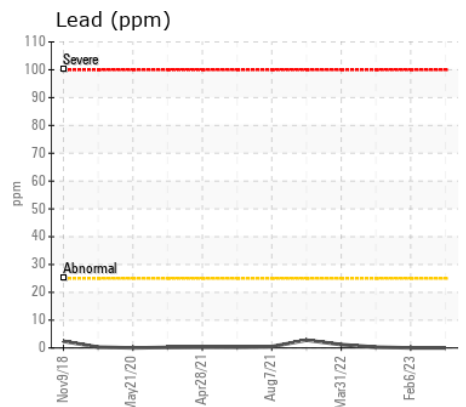
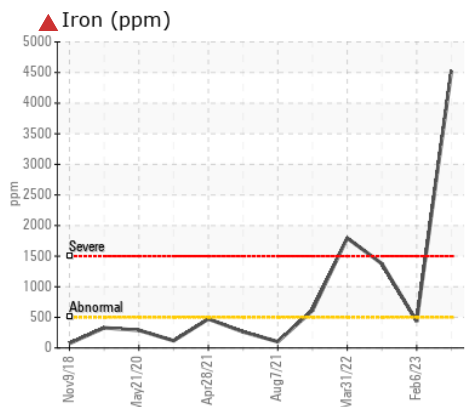
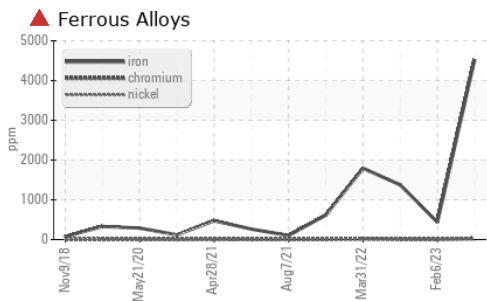
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP433666	VCP371320	VCP379117
Sample Date		Client Info		14 Jun 2024	06 Feb 2023	10 Aug 2022
Machine Age	hrs	Client Info		6605	5125	4625
Oil Age	hrs	Client Info		0	0	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				SEVERE	SEVERE	SEVERE

Iron	ppm	ASTM D5185m	>500	▲ 4527	436	▲ 1375
Chromium	ppm	ASTM D5185m	>10	▲ 32	4	8
Nickel	ppm	ASTM D5185m	>10	5	1	<1
Titanium	ppm	ASTM D5185m		13	4	5
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 220	● 100	● 95
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	10	<1	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 1611	▲ 400	▲ 794
Potassium	ppm	ASTM D5185m	>20	82	35	37
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	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		46	11	22
Boron	ppm	ASTM D5185m	379	100	99	20
Barium	ppm	ASTM D5185m	0.0	2	0	2
Molybdenum	ppm	ASTM D5185m	0.8	5	<1	1
Manganese	ppm	ASTM D5185m	0.0	28	4	8
Magnesium	ppm	ASTM D5185m	31	99	35	50
Calcium	ppm	ASTM D5185m	38	501	172	1340
Phosphorus	ppm	ASTM D5185m	1077	1714	1591	733
Zinc	ppm	ASTM D5185m	46	44	14	751
Sulfur	ppm	ASTM D5185m	23526	28407	16835	7675
Visc @ 40°C	cSt	ASTM D445	139	● 267	144	122



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP433666 **Received** : 19 Jun 2024
Lab Number : 06215075 **Tested** : 20 Jun 2024
Unique Number : 11087939 **Diagnosed** : 21 Jun 2024 - Sean Felton
Test Package : MOB 1

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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)