



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[3017]

Machine Id

VOLVO EC380EL 310195

Component

Front Left Final Drive

Fluid

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP433667	VCP382958	VCP383272
Sample Date		Client Info		14 Jun 2024	04 Jan 2024	18 Jul 2023
Machine Age	hrs	Client Info		6300	5715	5200
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	160	▲ 991	▲ 2190
Chromium	ppm	ASTM D5185m	>10	4	10	▲ 15
Nickel	ppm	ASTM D5185m	>10	0	2	5
Titanium	ppm	ASTM D5185m		<1	4	13
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	● 64	● 202
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>50	12	4	4
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

CONTAMINATION

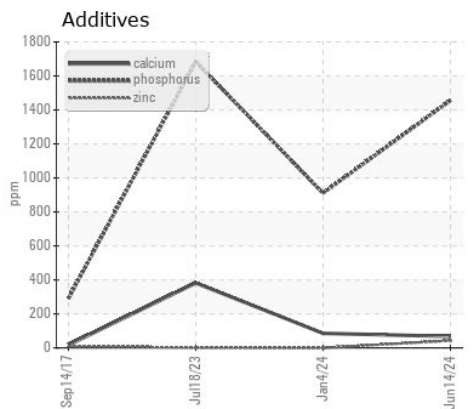
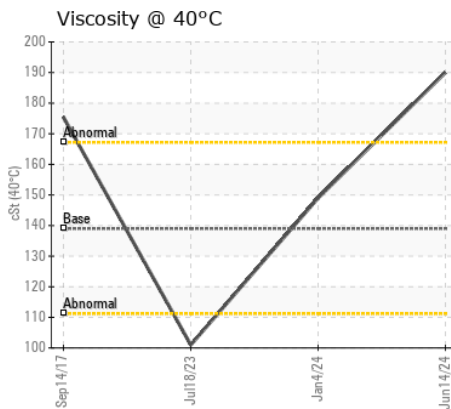
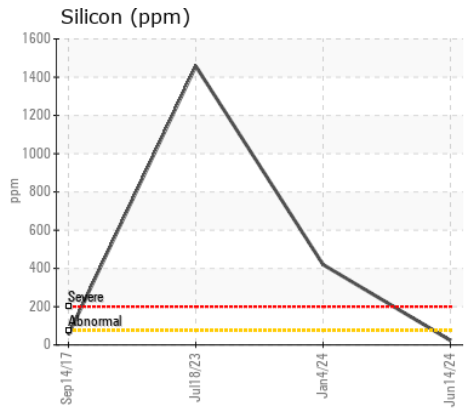
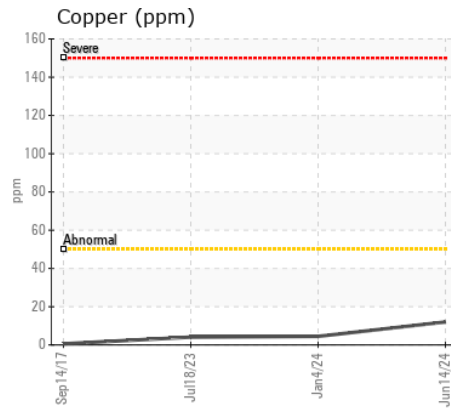
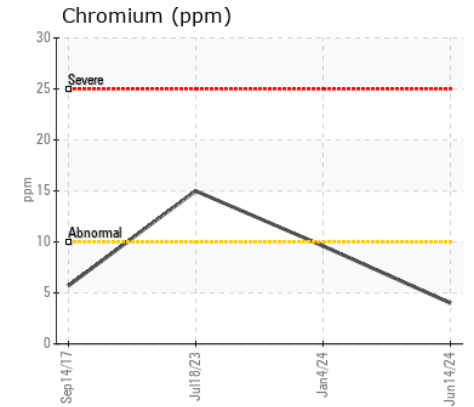
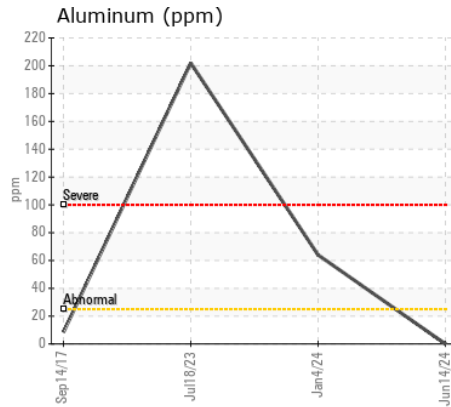
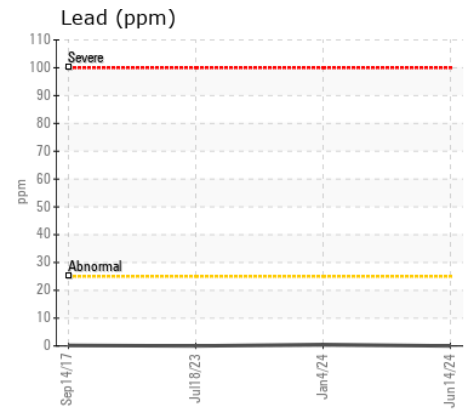
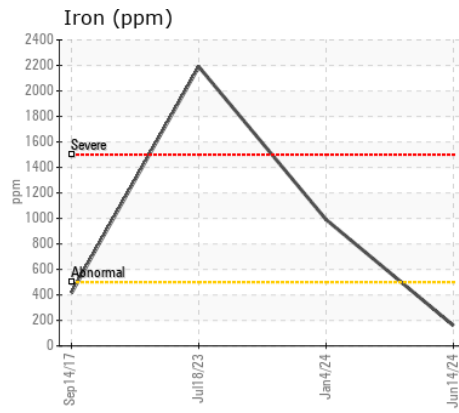
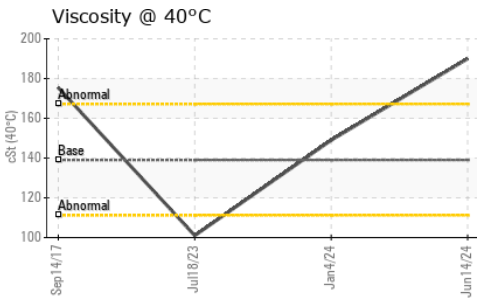
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	24	▲ 420	▲ 1458
Potassium	ppm	ASTM D5185m	>20	1	25	85
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	10	37
Boron	ppm	ASTM D5185m	379	126	42	127
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.8	0	2	2
Manganese	ppm	ASTM D5185m	0.0	4	7	16
Magnesium	ppm	ASTM D5185m	31	0	27	118
Calcium	ppm	ASTM D5185m	38	68	86	382
Phosphorus	ppm	ASTM D5185m	1077	1456	910	1684
Zinc	ppm	ASTM D5185m	46	43	<1	3
Sulfur	ppm	ASTM D5185m	23526	25049	16864	20434
Visc @ 40°C	cSt	ASTM D445	139	190	149	101



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP433667
Lab Number : 06215073
Unique Number : 11087937
Test Package : MOB 1

Received : 19 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Wes Davis

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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)