



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO EC250E 310119
Component
Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP449587	VCP216277	VCP193566
Sample Date		Client Info		22 Jun 2024	15 Nov 2017	07 Apr 2017
Machine Age	hrs	Client Info		14587	4665	3028
Oil Age	hrs	Client Info		0	0	2000
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				ABNORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	744	818	▲ 3263
Chromium	ppm	ASTM D5185m	>10	3	7	▲ 38
Nickel	ppm	ASTM D5185m	>10	0	<1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	4
Lead	ppm	ASTM D5185m	>50	0	2	2
Copper	ppm	ASTM D5185m	>50	17	23	68
Tin	ppm	ASTM D5185m	>10	0	0	3
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	LIGHT	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

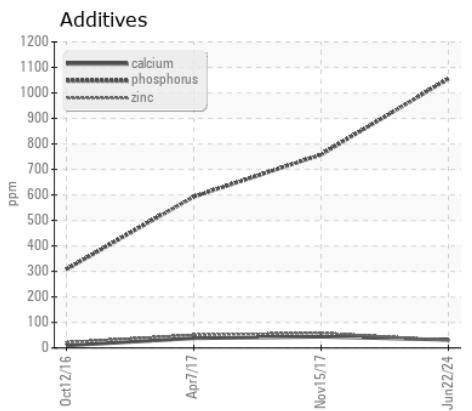
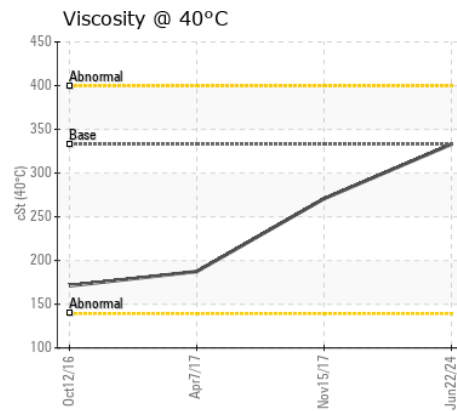
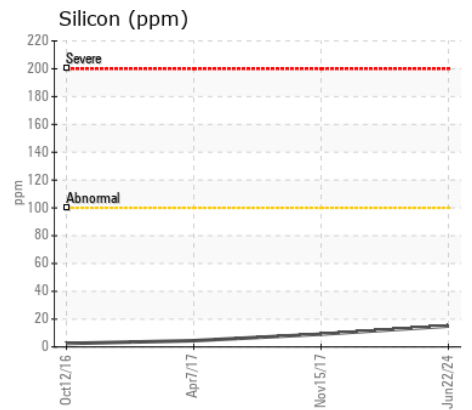
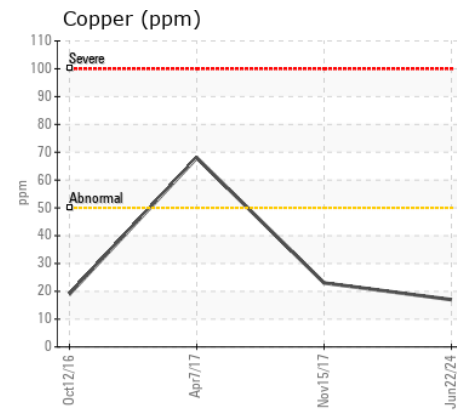
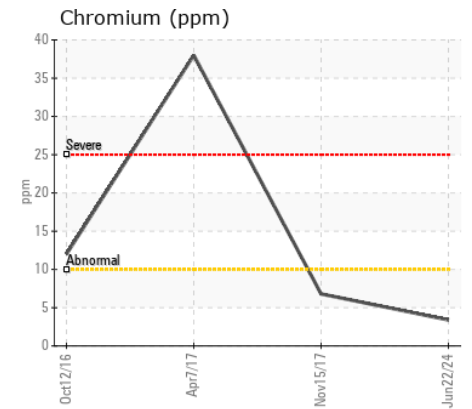
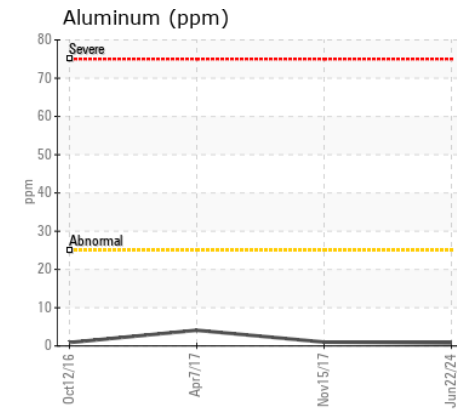
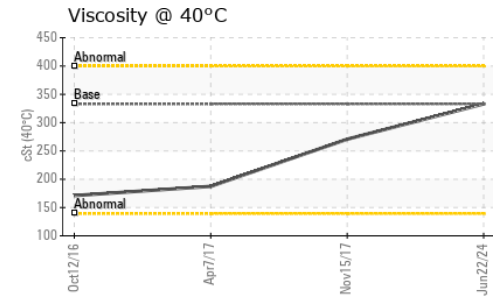
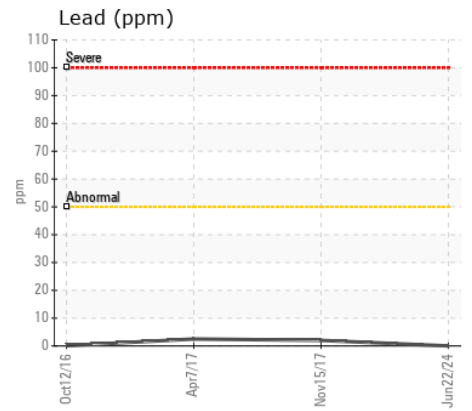
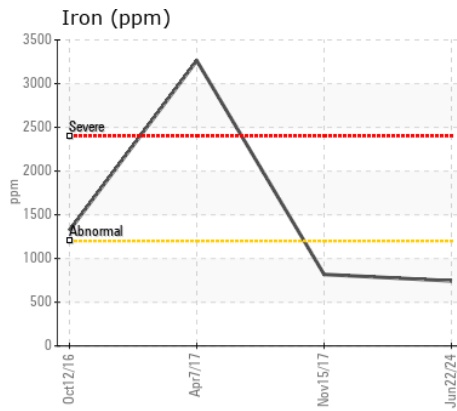
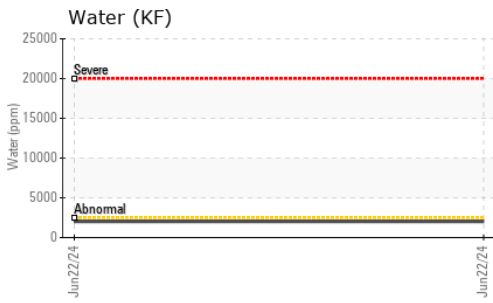
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>100	15	9	4
Potassium	ppm	ASTM D5185m	>20	0	0	4
Water	%	ASTM D6304	>0.25	0.202	---	---
ppm Water	ppm	ASTM D6304	>2500	2020	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	2	8
Boron	ppm	ASTM D5185m	111	107	78	5
Barium	ppm	ASTM D5185m	0.0	0	0	2
Molybdenum	ppm	ASTM D5185m	0.9	0	0	0
Manganese	ppm	ASTM D5185m	0.0	5	8	35
Magnesium	ppm	ASTM D5185m	39	3	7	0
Calcium	ppm	ASTM D5185m	93	32	44	38
Phosphorus	ppm	ASTM D5185m	920	1055	758	593
Zinc	ppm	ASTM D5185m	104	30	59	51
Sulfur	ppm	ASTM D5185m	20179	35273	22445	4672
Visc @ 40°C	cSt	ASTM D445	333	333	270.7	187.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP449587

Lab Number : 06221579

Unique Number : 11099776

Test Package : MOB 1 (Additional Tests: KF)

Received : 26 Jun 2024

Tested : 27 Jun 2024

Diagnosed : 28 Jun 2024 - Angela Borella

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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