



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area
[A12681]
Machine Id
VOLVO ECR235CL 110022
Component
Hydraulic System
Fluid
MOBIL HYDRAULIC OIL AW 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP454453	VCP363934	VCP339385
Sample Date		Client Info		16 May 2024	26 Aug 2022	07 Dec 2021
Machine Age	hrs	Client Info		10505	9785	9125
Oil Age	hrs	Client Info		500	2000	1500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	5	16	12
Chromium	ppm	ASTM D5185m	>10	2	6	10
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	3	2
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>150	4	9	13
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

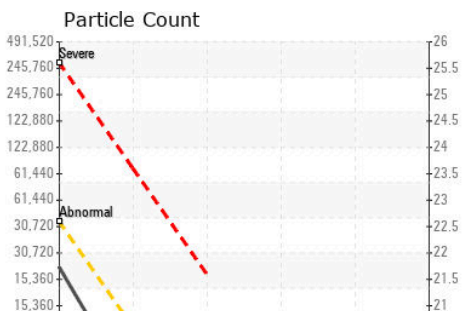
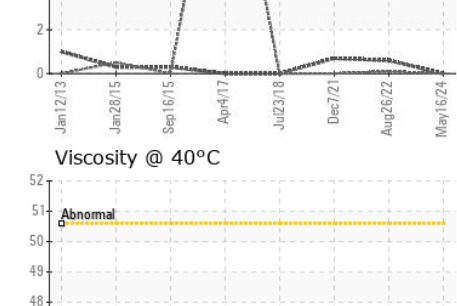
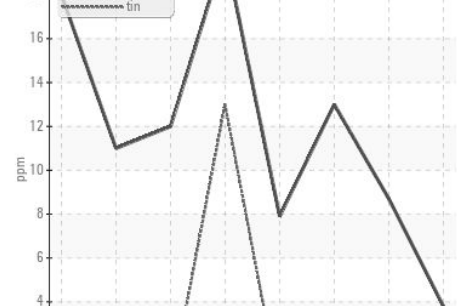
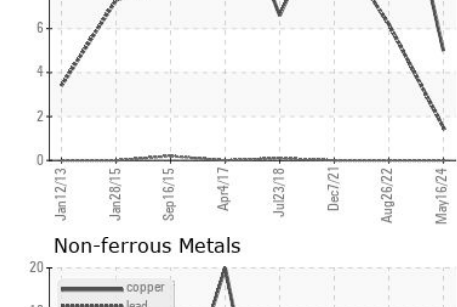
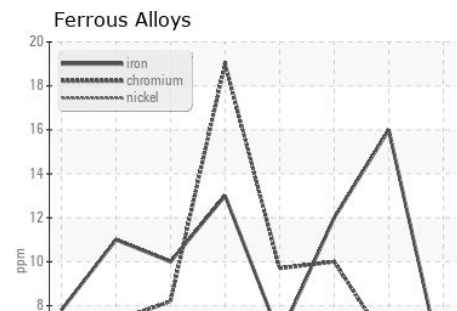
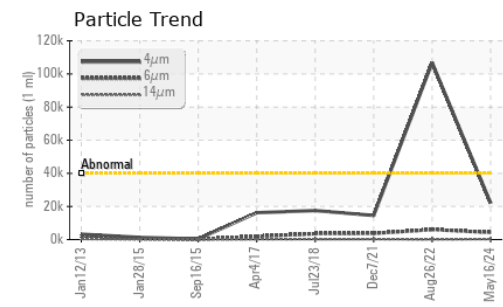
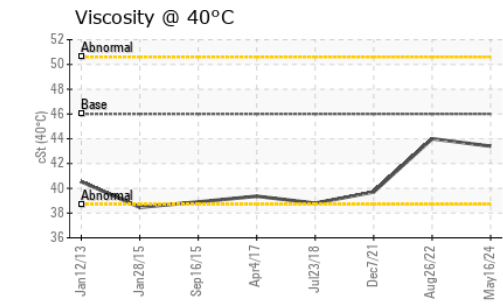
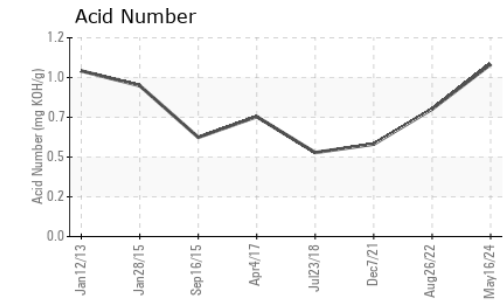
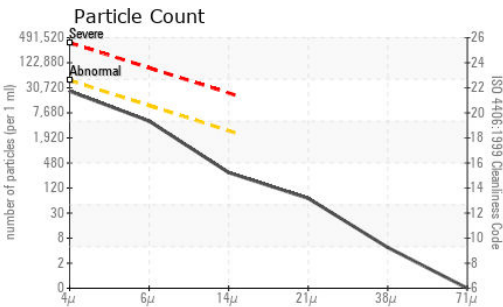
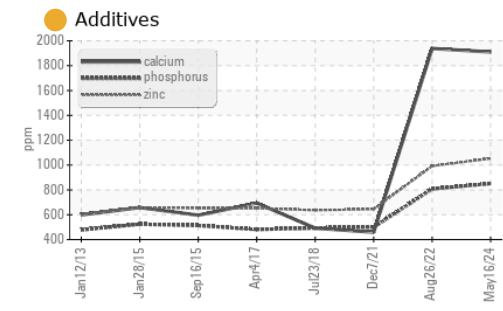
The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>50	9	15	5
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	22045	▲ 106816	14557
Particles >6µm		ASTM D7647	>10000	4254	6033	3715
Particles >14µm		ASTM D7647	>2500	248	14	242
Particles >21µm		ASTM D7647	>640	60	4	39
Particles >38µm		ASTM D7647	>160	4	0	1
Particles >71µm		ASTM D7647	>40	0	0	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	22/19/15	▲ 24/20/11	21/19/15
Silt	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		2	5	2
Boron	ppm	ASTM D5185m		● 73	● 80	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	7	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		32	41	9
Calcium	ppm	ASTM D5185m		● 1910	● 1938	459
Phosphorus	ppm	ASTM D5185m		851	● 808	499
Zinc	ppm	ASTM D5185m		1053	● 992	644
Sulfur	ppm	ASTM D5185m		3392	4041	2099
Acid Number (AN)	mg KOH/g	ASTM D8045		1.04	0.77	0.558
Visc @ 40°C	cSt	ASTM D445	46	43.4	44.0	39.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP454453
Lab Number : 06192123
Unique Number : 11048875
Test Package : MOB 2
Received : 28 May 2024
Tested : 29 May 2024
Diagnosed : 30 May 2024 - Angela Borella

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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)