



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO EC250EL 310111

Component
Hydraulic System

Fluid
MOBIL DTE 10 EXCEL 46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP406124	VCP386166	VCP359609
Sample Date		Client Info		07 Aug 2023	12 May 2023	01 Mar 2023
Machine Age	hrs	Client Info		5474	5225	5101
Oil Age	hrs	Client Info		1209	960	836
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				ABNORMAL	ABNORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	5	5	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	10	9	6
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>150	37	31	27
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

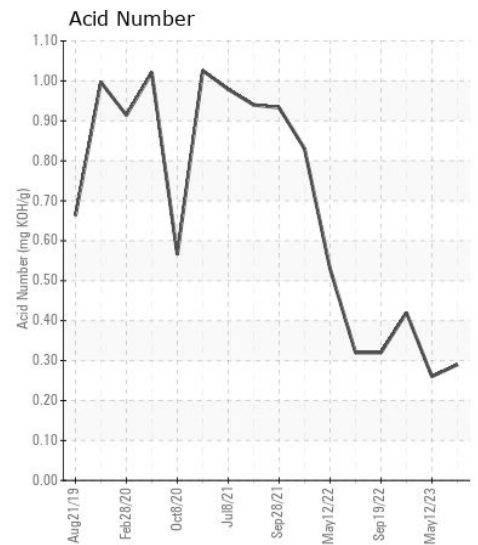
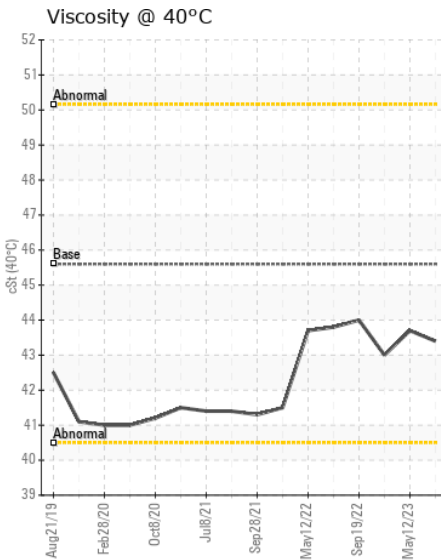
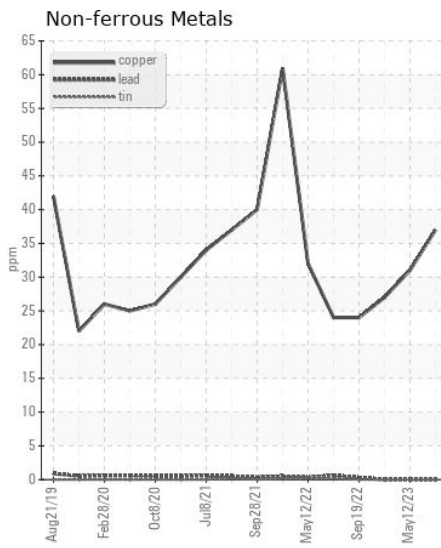
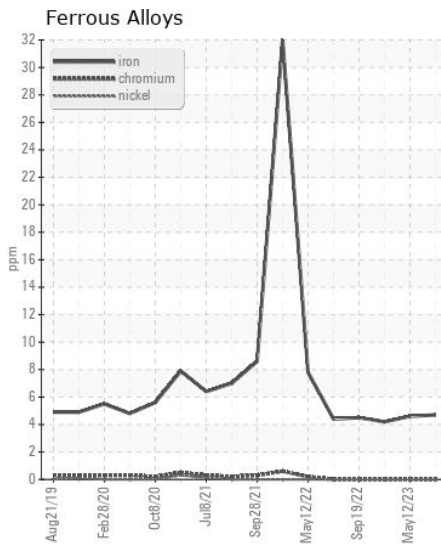
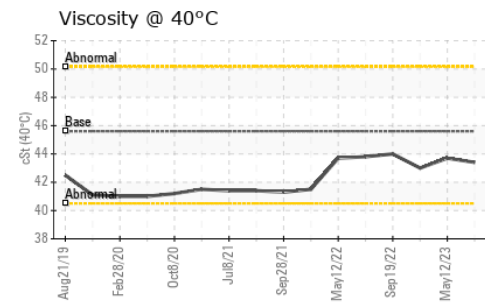
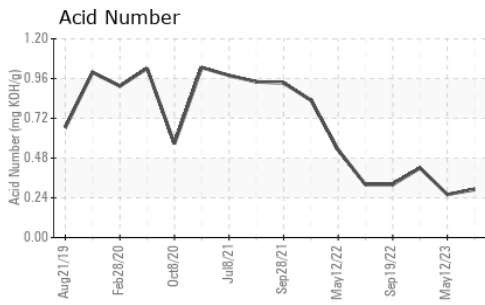
There is a moderate amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>50	3	3	4
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	---	▲ 143265	32753
Particles >6µm		ASTM D7647	>10000	---	▲ 26495	1547
Particles >14µm		ASTM D7647	>2500	---	42	46
Particles >21µm		ASTM D7647	>640	---	9	12
Particles >38µm		ASTM D7647	>160	---	0	0
Particles >71µm		ASTM D7647	>40	---	0	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	---	▲ 24/22/13	22/18/13
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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	0.2%

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	2	2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		2	3	2
Calcium	ppm	ASTM D5185m		422	442	438
Phosphorus	ppm	ASTM D5185m		490	519	475
Zinc	ppm	ASTM D5185m		260	267	267
Sulfur	ppm	ASTM D5185m		2226	2483	2061
Acid Number (AN)	mg KOH/g	ASTM D8045		0.29	0.26	0.42
Visc @ 40°C	cSt	ASTM D445	45.6	43.4	43.7	43.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP406124
Lab Number : 05932079
Unique Number : 10617350
Test Package : MOB 2

Received : 23 Aug 2023
Tested : 24 Aug 2023
Diagnosed : 24 Aug 2023 - Don Baldrige

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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)