MOB II VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

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.

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

CONTAMINATION

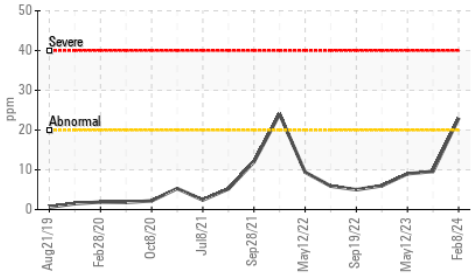
Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

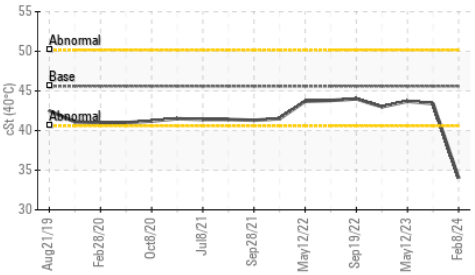
Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP416954	VCP406124	VCP386166
Sample Date		Client Info		08 Feb 2024	07 Aug 2023	12 May 2023
Machine Age	hrs	Client Info		6098	5474	5225
Oil Age	hrs	Client Info		1833	1209	960
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	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>25	7	5	5
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	▲ 23	10	9
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>150	67	37	31
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	6	3	3
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	---	---	▲ 143265
Particles >6µm		ASTM D7647	>10000	---	---	▲ 26495
Particles >14µm		ASTM D7647	>2500	---	---	42
Particles >21µm		ASTM D7647	>640	---	---	9
Particles >38µm		ASTM D7647	>160	---	---	0
Particles >71µm		ASTM D7647	>40	---	---	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	---	---	▲ 24/22/13
Silt	scalar	*Visual	NONE	NONE	▲ MODER	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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		4	2	2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	2	3
Calcium	ppm	ASTM D5185m		324	422	442
Phosphorus	ppm	ASTM D5185m		419	490	519
Zinc	ppm	ASTM D5185m		224	260	267
Sulfur	ppm	ASTM D5185m		1562	2226	2483
Acid Number (AN)	mg KOH/g	ASTM D8045		0.28	0.29	0.26
Visc @ 40°C	cSt	ASTM D445	45.6	▲ 34.0	43.4	43.7

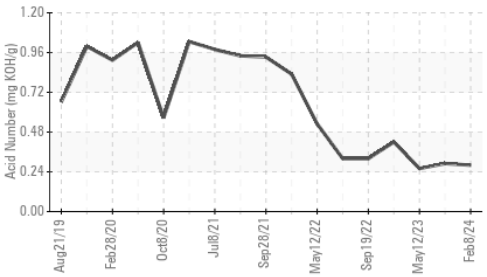
Aluminum (ppm)



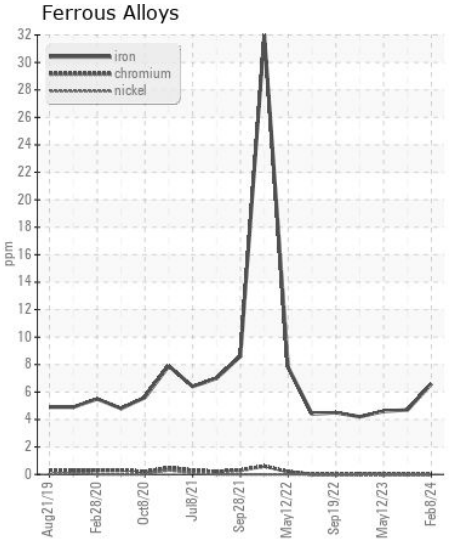
Viscosity @ 40°C



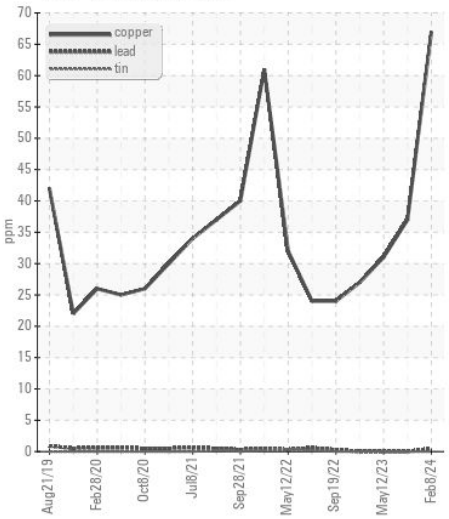
Acid Number



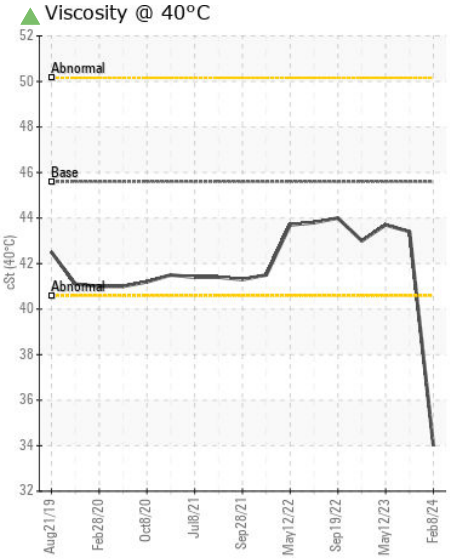
Ferrous Alloys



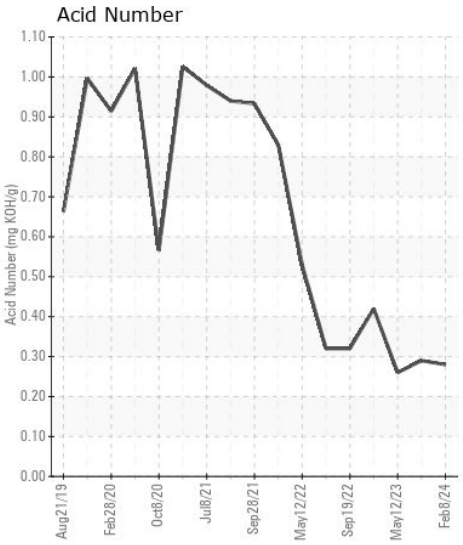
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP416954
Lab Number : 06100086
Unique Number : 10898316
Test Package : MOB 2

Received : 26 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 27 Feb 2024 - Don Baldridge

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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