ASCENDUM

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
VOLVO EC250EL 310605 - EC250EL
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

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

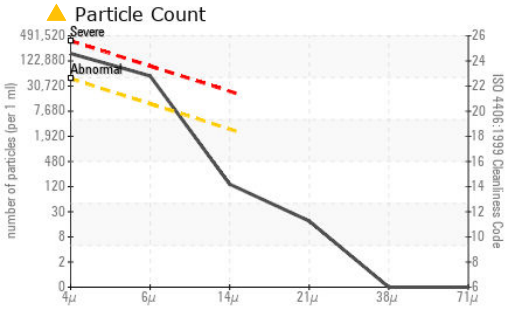
CONTAMINATION

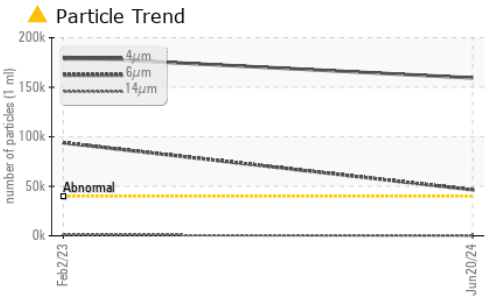
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

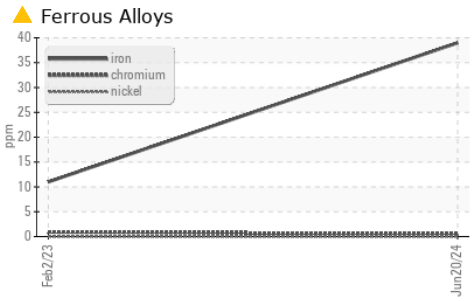
FLUID CONDITION

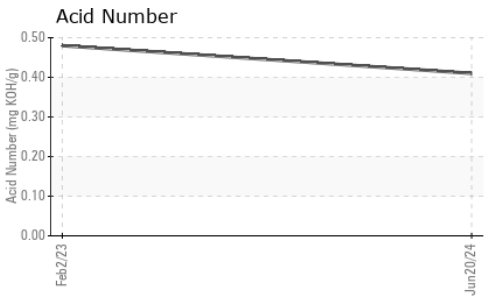
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

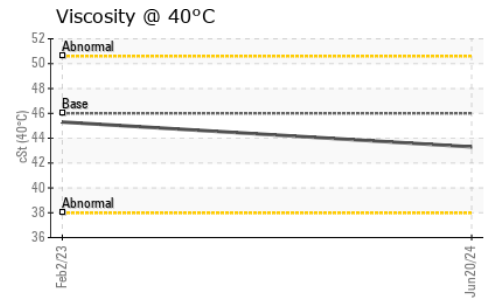
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0010828	VCP346751	---
Sample Date		Client Info		20 Jun 2024	02 Feb 2023	---
Machine Age	hrs	Client Info		3509	2452	---
Oil Age	hrs	Client Info		0	2000	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185m	>25	▲ 39	11	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	3	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>150	23	41	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>50	20	6	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>40000	▲ 159372	▲ 180502	---
Particles >6µm		ASTM D7647	>10000	▲ 46358	▲ 93900	---
Particles >14µm		ASTM D7647	>2500	121	784	---
Particles >21µm		ASTM D7647	>640	16	75	---
Particles >38µm		ASTM D7647	>160	0	4	---
Particles >71µm		ASTM D7647	>40	0	0	---
Oil Cleanliness		ISO 4406 (c)	>22/20/18	▲ 24/23/14	▲ 25/24/17	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185m		3	0	---
Boron	ppm	ASTM D5185m	14	4	8	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.0	5	7	---
Manganese	ppm	ASTM D5185m	0.0	<1	<1	---
Magnesium	ppm	ASTM D5185m	2.6	37	59	---
Calcium	ppm	ASTM D5185m	49	192	306	---
Phosphorus	ppm	ASTM D5185m	354	370	426	---
Zinc	ppm	ASTM D5185m	419	420	529	---
Sulfur	ppm	ASTM D5185m	3719	2966	1602	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.48	---
Visc @ 40°C	cSt	ASTM D445	46	43.3	45.3	---

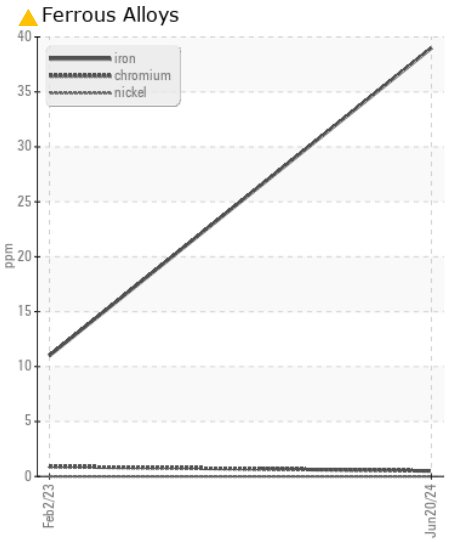


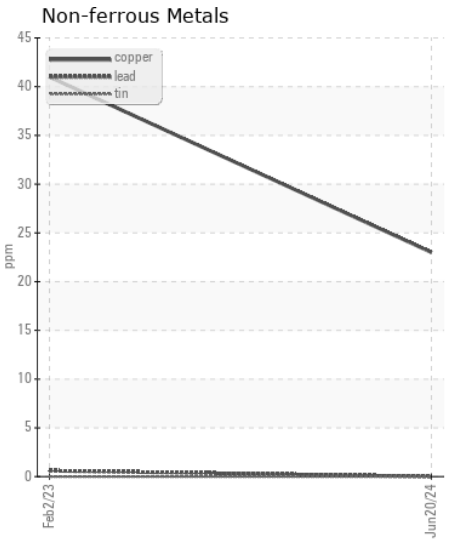


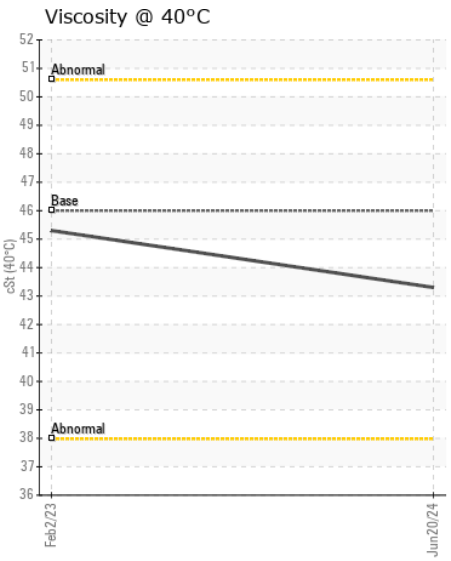


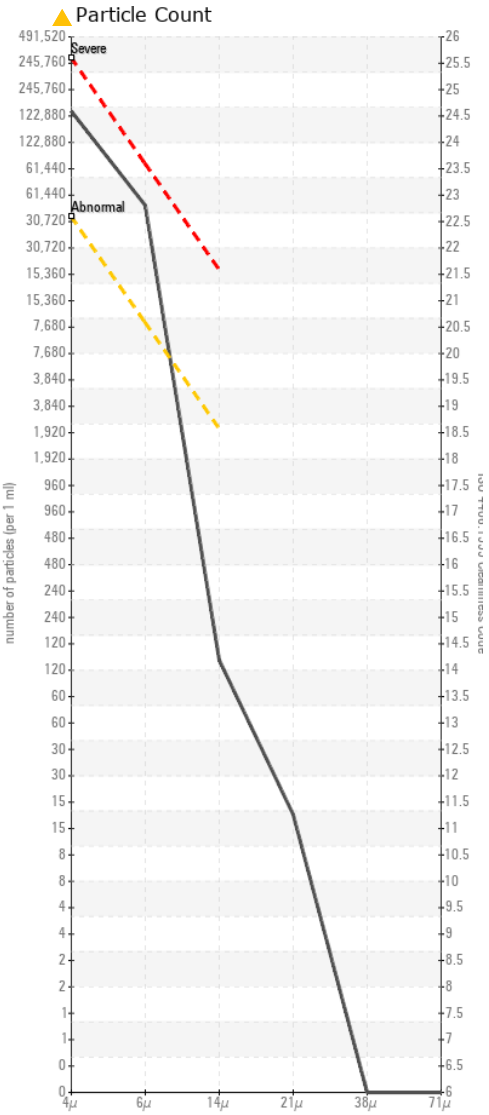


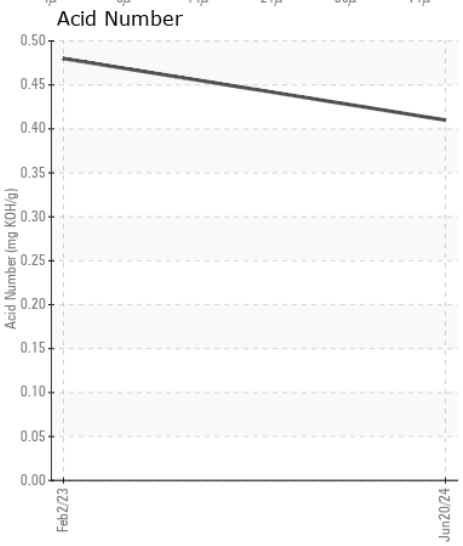












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0010828
Lab Number : 06222823
Unique Number : 11101020
Test Package : CONST

Received : 27 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 29 Jun 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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