



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Area
[ACTION ENV]
 Machine Id
VOLVO EC140B 11614

Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We advise that you check for the source of fuel entry. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP437879	VCP330040	---
Sample Date		Client Info		27 Feb 2024	28 Feb 2022	---
Machine Age	hrs	Client Info		49	4627	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				SEVERE	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	3	8	---
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	0	<1	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>150	2	6	---
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	---

CONTAMINATION

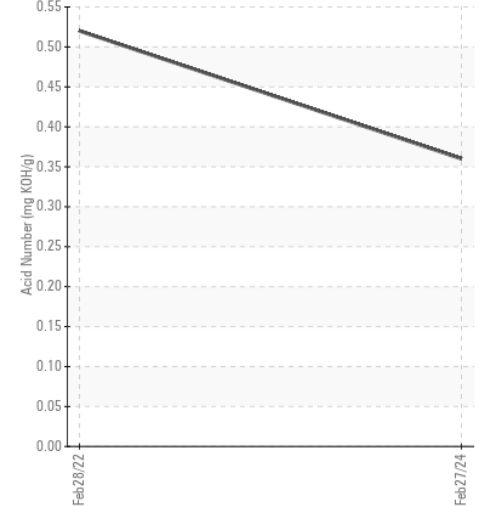
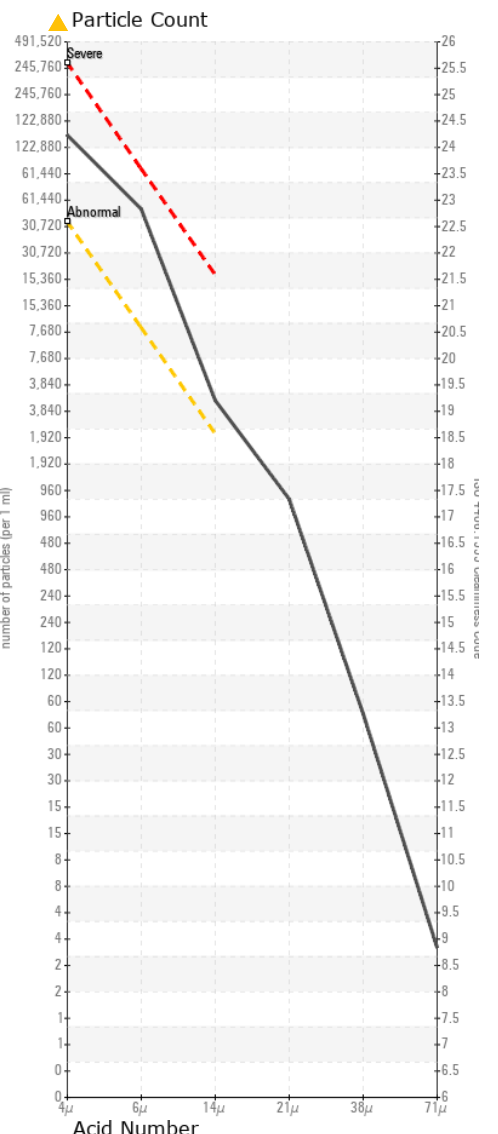
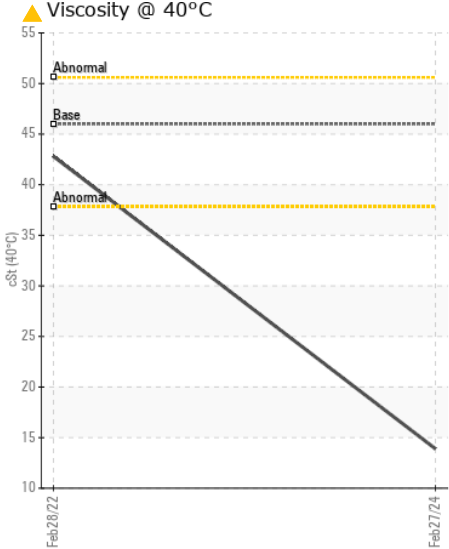
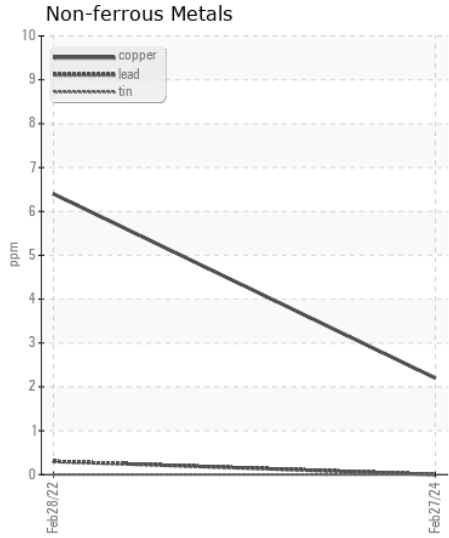
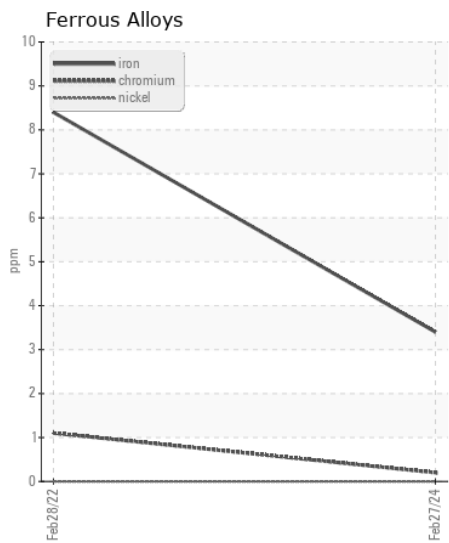
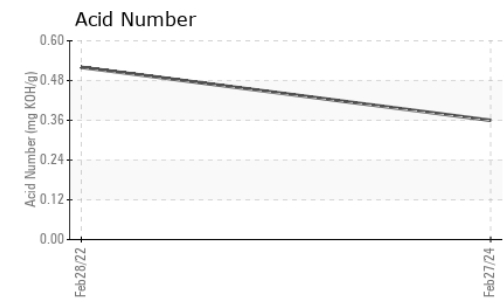
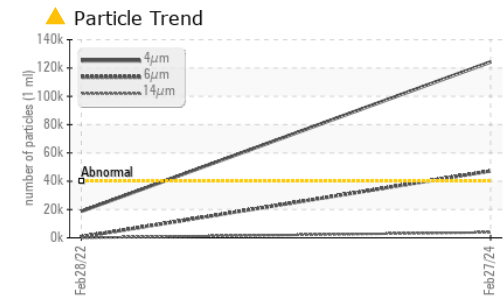
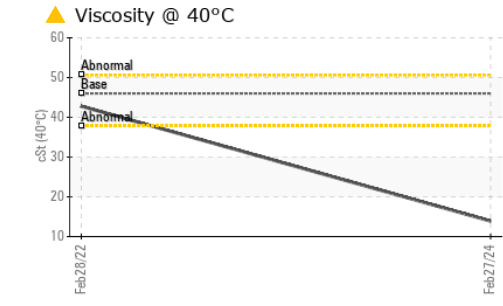
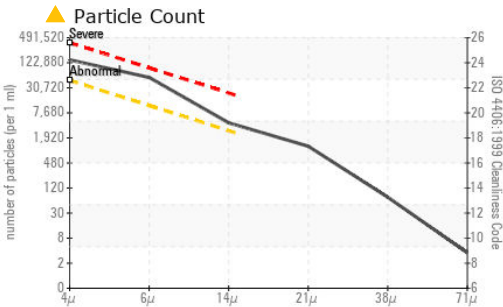
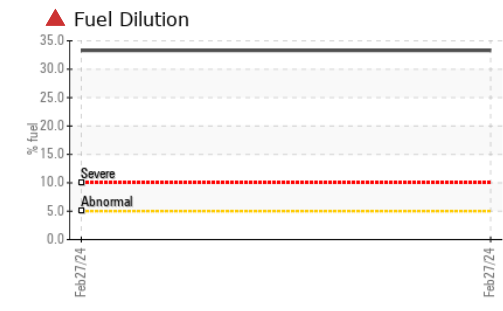
There is a high amount of particulates present in the oil. There is a high amount of fuel present in the oil.

Silicon	ppm	ASTM D5185m	>50	2	4	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Fuel	%	ASTM D3524		▲ 33.3	---	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>40000	▲ 124313	18708	---
Particles >6µm		ASTM D7647	>10000	▲ 47201	659	---
Particles >14µm		ASTM D7647	>2500	▲ 3861	38	---
Particles >21µm		ASTM D7647	>640	▲ 1062	14	---
Particles >38µm		ASTM D7647	>160	64	0	---
Particles >71µm		ASTM D7647	>40	3	0	---
Oil Cleanliness		ISO 4406 (c)	>22/20/18	▲ 24/23/19	21/17/12	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	NONE	---
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	---

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		1	0	---
Boron	ppm	ASTM D5185m	14	0	1	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.0	<1	1	---
Manganese	ppm	ASTM D5185m	0.0	0	0	---
Magnesium	ppm	ASTM D5185m	2.6	1	0	---
Calcium	ppm	ASTM D5185m	49	52	97	---
Phosphorus	ppm	ASTM D5185m	354	212	383	---
Zinc	ppm	ASTM D5185m	419	248	339	---
Sulfur	ppm	ASTM D5185m	3719	1808	2181	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	0.52	---
Visc @ 40°C	cSt	ASTM D445	46	▲ 13.9	42.8	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP437879 **Received** : 25 Apr 2024
Lab Number : 06160291 **Tested** : 02 May 2024
Unique Number : 10995714 **Diagnosed** : 02 May 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: FUELDILUTION, PercentFuel)
 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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