



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area

[717257]

Machine Id

VOLVO EC380 315097

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP447784	VCP402970	---
Sample Date		Client Info		12 Jun 2024	13 May 2023	---
Machine Age	hrs	Client Info		2866	1256	---
Oil Age	hrs	Client Info		866	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	2	2	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	<1	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>150	20	13	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

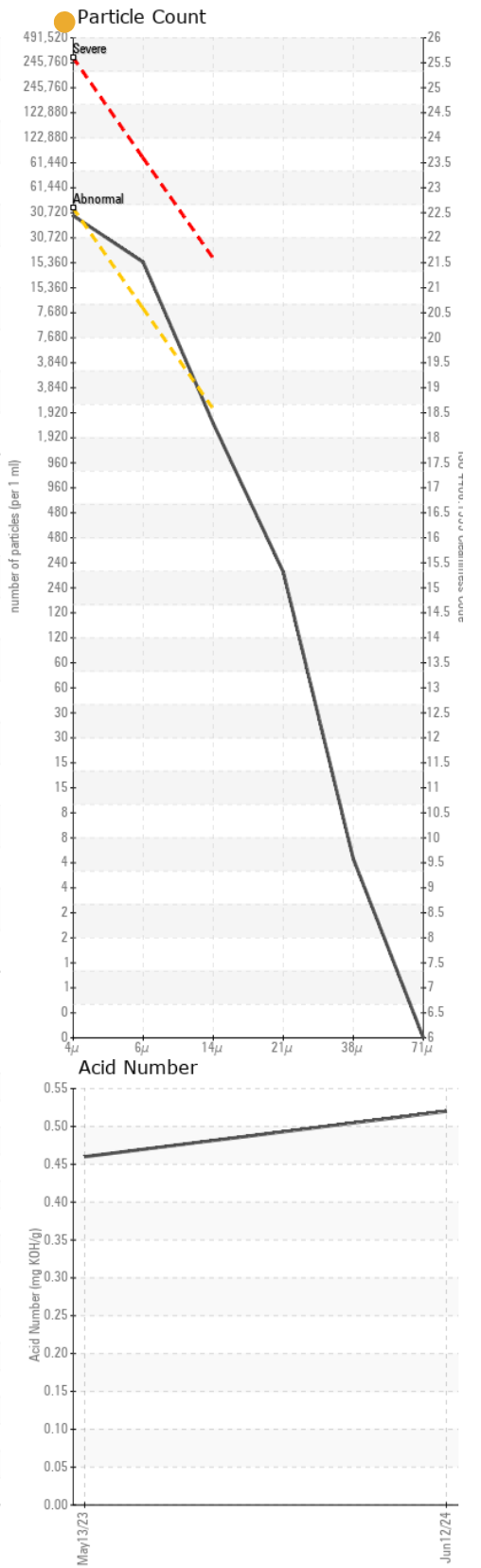
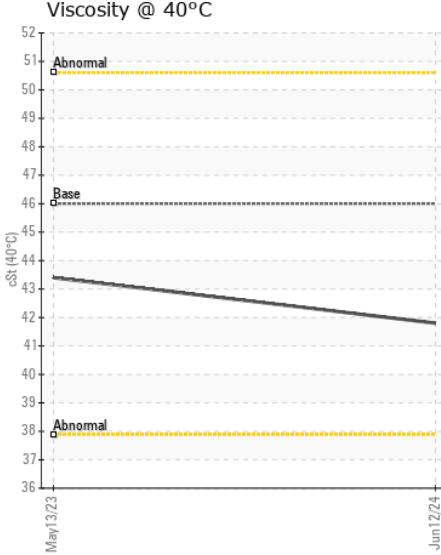
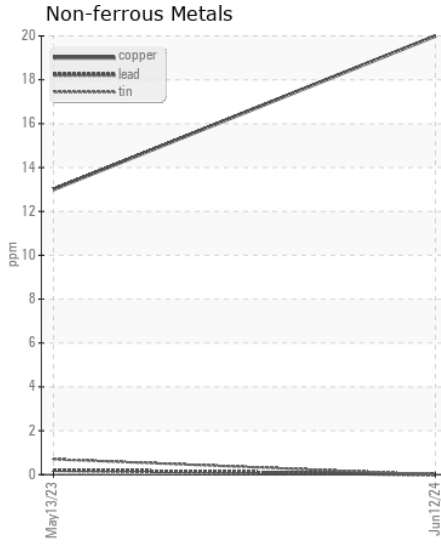
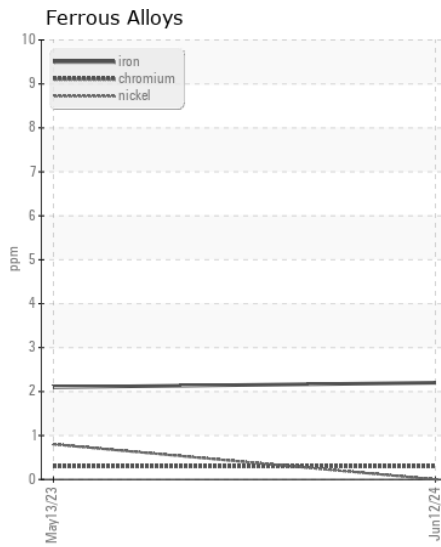
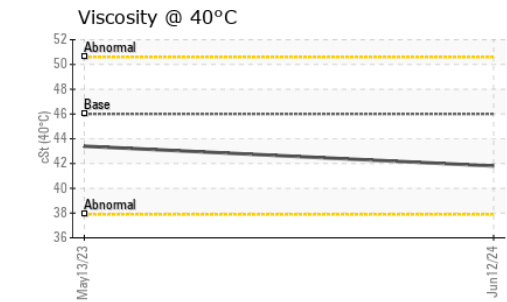
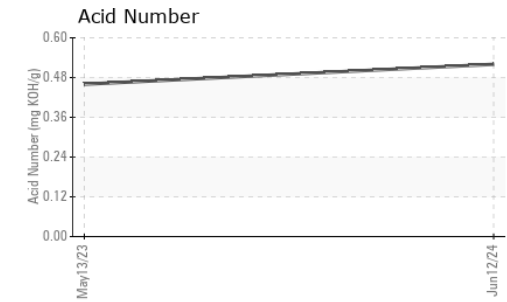
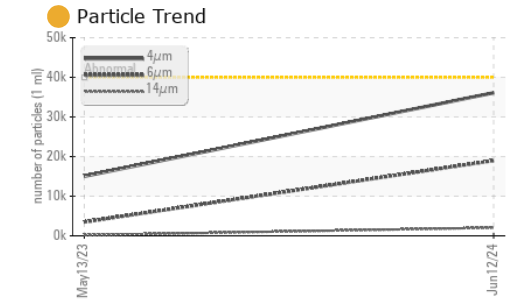
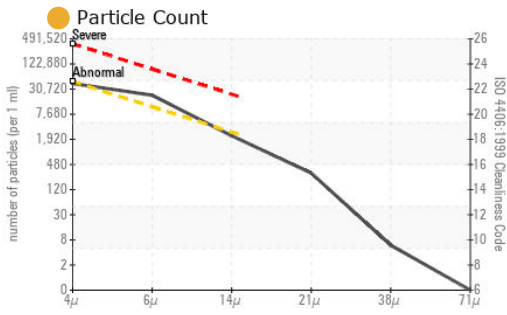
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>50	3	2	---
Potassium	ppm	ASTM D5185m	>20	1	1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>40000	36101	15020	---
Particles >6µm		ASTM D7647	>10000	18988	3485	---
Particles >14µm		ASTM D7647	>2500	2045	167	---
Particles >21µm		ASTM D7647	>640	263	22	---
Particles >38µm		ASTM D7647	>160	5	0	---
Particles >71µm		ASTM D7647	>40	0	0	---
Oil Cleanliness		ISO 4406 (c)	>22/20/18	22/21/18	21/19/15	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	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

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	<1	---
Boron	ppm	ASTM D5185m	14	0	0	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.0	0	0	---
Manganese	ppm	ASTM D5185m	0.0	0	<1	---
Magnesium	ppm	ASTM D5185m	2.6	<1	2	---
Calcium	ppm	ASTM D5185m	49	75	79	---
Phosphorus	ppm	ASTM D5185m	354	403	431	---
Zinc	ppm	ASTM D5185m	419	503	559	---
Sulfur	ppm	ASTM D5185m	3719	1032	1300	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.52	0.46	---
Visc @ 40°C	cSt	ASTM D445	46	41.8	43.4	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP447784 **Received** : 19 Jun 2024
Lab Number : 06214594 **Tested** : 20 Jun 2024
Unique Number : 11087458 **Diagnosed** : 21 Jun 2024 - Don Baldrige
Test Package : MOB 2

BLAZE CONSTRUCTION
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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)