



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	MARGINAL



Machine Id
VOLVO A30F 82299
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP454425	VCP333241	---
Sample Date		Client Info		08 Feb 2024	20 Jan 2022	---
Machine Age	hrs	Client Info		11488	10461	---
Oil Age	hrs	Client Info		0	1500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Chngd	Not Chngd	---
Filter Changed		Client Info		Not Chngd	Not Chngd	---
Sample Status				SEVERE	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	2	3	---
Chromium	ppm	ASTM D5185m	>20	0	0	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>20	<1	0	---
Lead	ppm	ASTM D5185m	>20	3	<1	---
Copper	ppm	ASTM D5185m	>150	2	29	---
Tin	ppm	ASTM D5185m	>20	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

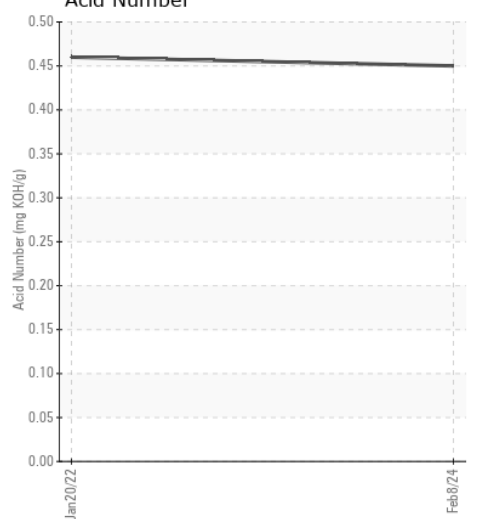
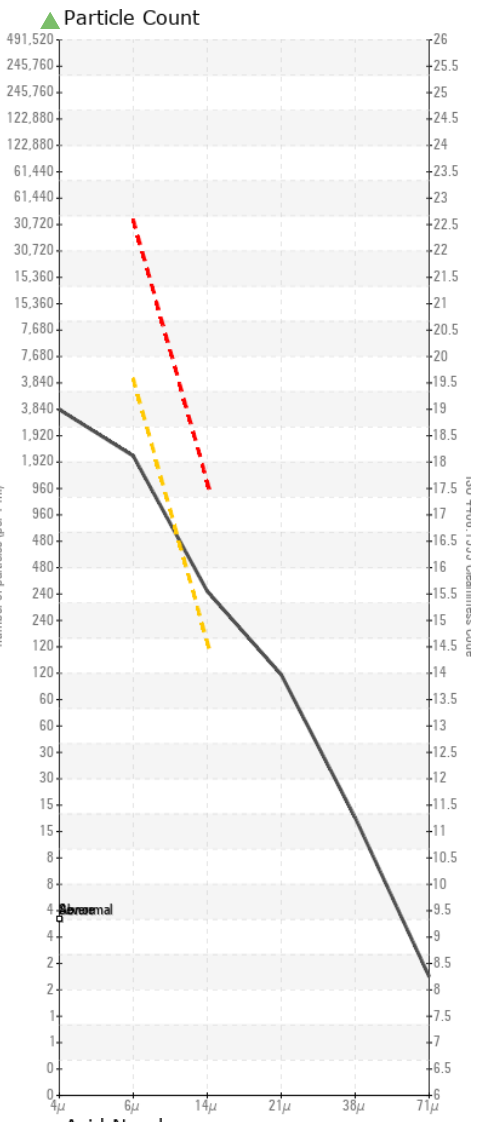
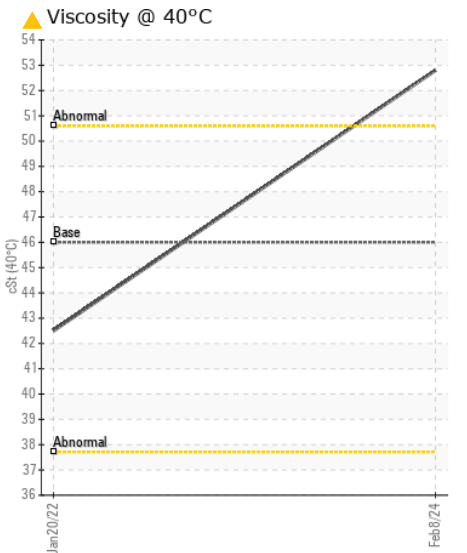
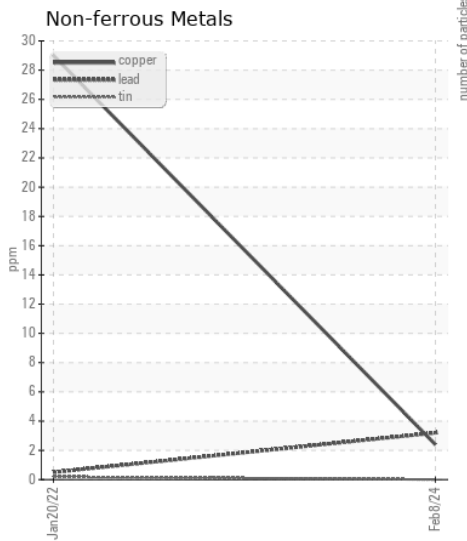
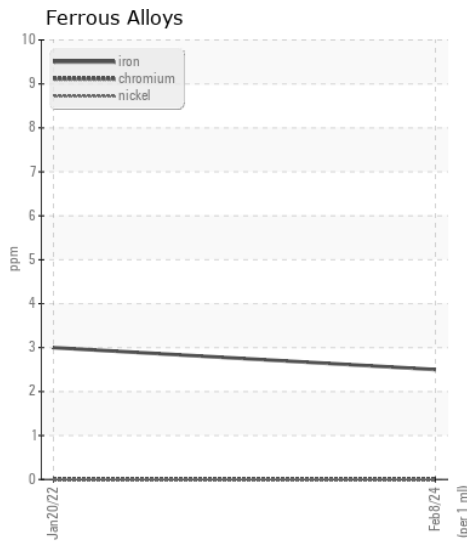
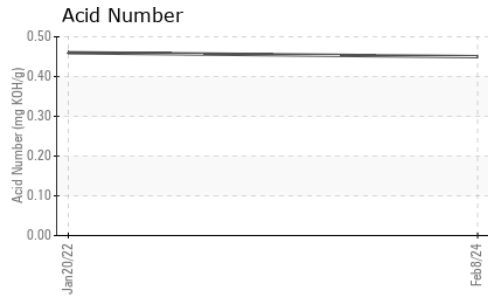
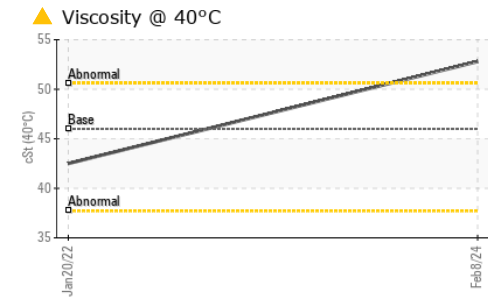
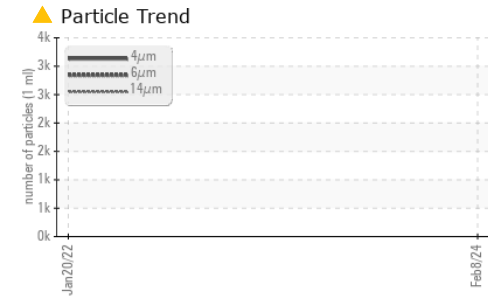
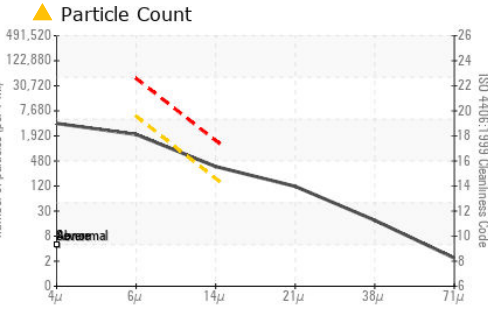
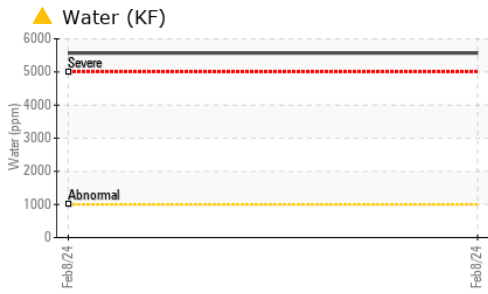
Appearance is milky. There is a moderate amount of particulates present in the oil. There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	3	3	---
Potassium	ppm	ASTM D5185m	>20	0	1	---
Water	%	ASTM D6304	>0.1	▲ 0.557	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 5570	---	---
Particles >4µm		ASTM D7647		3341	---	---
Particles >6µm		ASTM D7647	>5000	1820	---	---
Particles >14µm		ASTM D7647	>160	▲ 310	---	---
Particles >21µm		ASTM D7647	>40	▲ 104	---	---
Particles >38µm		ASTM D7647	>10	▲ 16	---	---
Particles >71µm		ASTM D7647	>3	2	---	---
Oil Cleanliness		ISO 4406 (c)	>-/19/14	▲ 19/18/15	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	▲ MILKY	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	◆ 0.2%	NEG	---

FLUID CONDITION

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		2	0	---
Boron	ppm	ASTM D5185m	14	0	<1	---
Barium	ppm	ASTM D5185m	0.0	<1	0	---
Molybdenum	ppm	ASTM D5185m	0.0	0	<1	---
Manganese	ppm	ASTM D5185m	0.0	<1	0	---
Magnesium	ppm	ASTM D5185m	2.6	4	2	---
Calcium	ppm	ASTM D5185m	49	110	78	---
Phosphorus	ppm	ASTM D5185m	354	360	353	---
Zinc	ppm	ASTM D5185m	419	446	465	---
Sulfur	ppm	ASTM D5185m	3719	1604	776	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.45	0.46	---
Visc @ 40°C	cSt	ASTM D445	46	▲ 52.8	42.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP454425 **Received** : 13 Feb 2024
Lab Number : 06087202 **Tested** : 16 Feb 2024
Unique Number : 10874647 **Diagnosed** : 16 Feb 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF)

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)

RIPA AND ASSOCIATES

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