



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
[19744]
Machine Id
VOLVO A45G 353004
Component
Wet Disc Brake
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for diagnostic comment updates.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP432895	---	---
Sample Date		Client Info		13 Sep 2023	---	---
Machine Age	hrs	Client Info		5188	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

The iron level is abnormal. The copper level is abnormal.

Iron	ppm	ASTM D5185m	>20	▲ 131	---	---
Chromium	ppm	ASTM D5185m	>10	4	---	---
Nickel	ppm	ASTM D5185m	>10	9	---	---
Titanium	ppm	ASTM D5185m		1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	▲ 16	---	---
Lead	ppm	ASTM D5185m	>10	<1	---	---
Copper	ppm	ASTM D5185m	>75	▲ 371	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

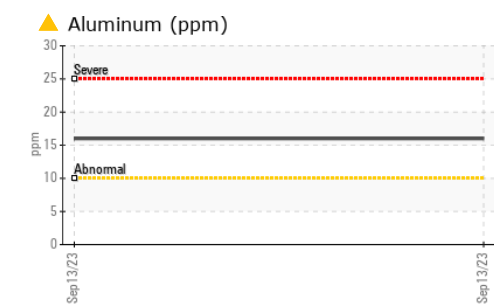
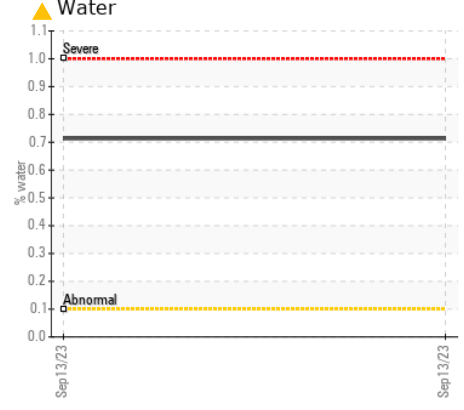
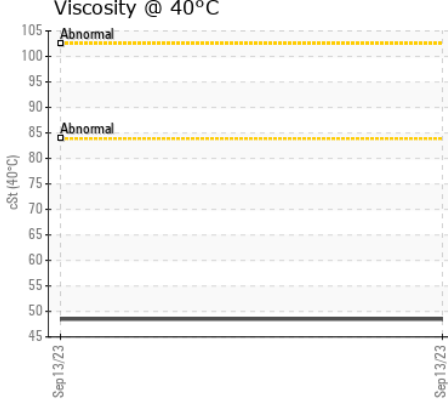
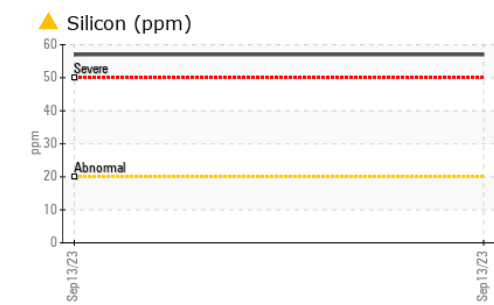
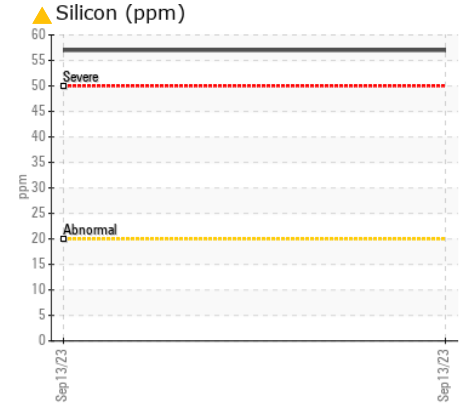
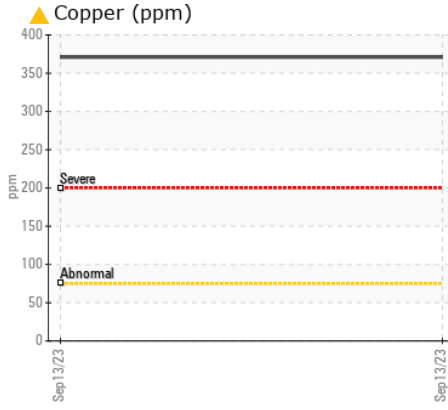
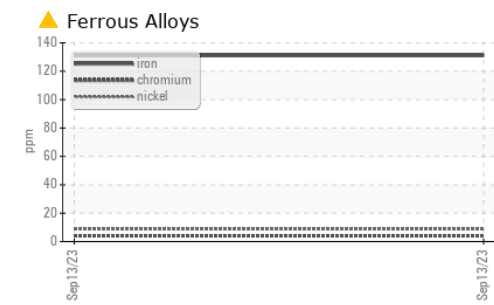
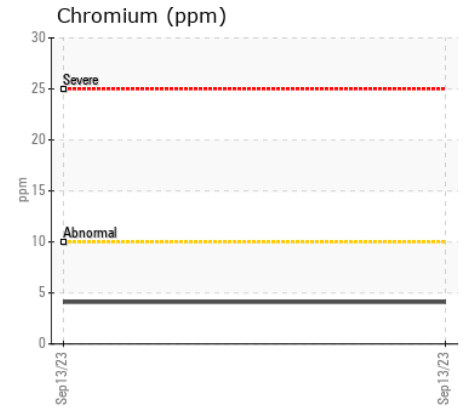
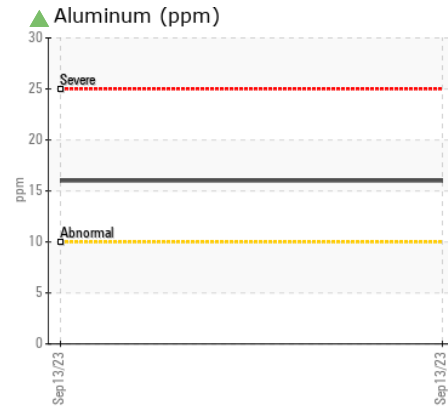
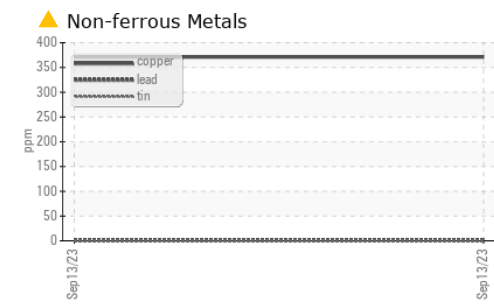
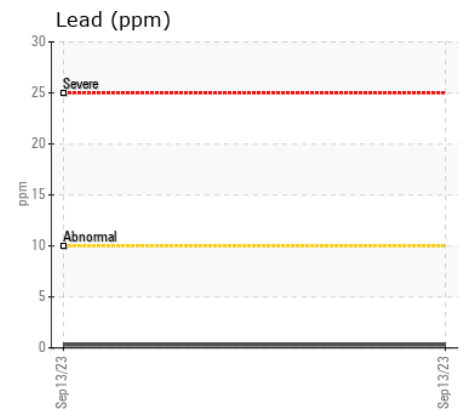
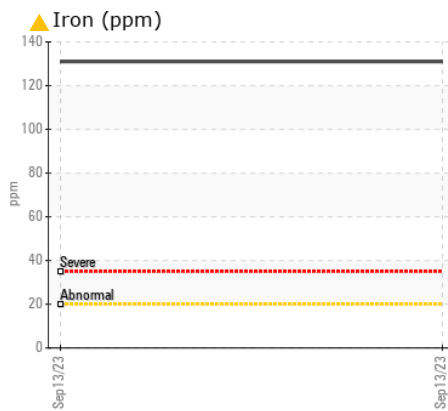
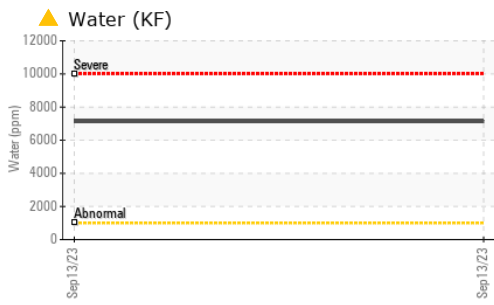
There is a high amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. No evidence of coolant present in the oil.

Silicon	ppm	ASTM D5185m	>20	▲ 57	---	---
Potassium	ppm	ASTM D5185m	>20	8	---	---
Water	%	ASTM D6304	>0.1	▲ 0.713	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 7130	---	---
Silt	scalar	*Visual	NONE	▲ HEAVY	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	---	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		47	---	---
Boron	ppm	ASTM D5185m		104	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		7	---	---
Manganese	ppm	ASTM D5185m		5	---	---
Magnesium	ppm	ASTM D5185m		100	---	---
Calcium	ppm	ASTM D5185m		3990	---	---
Phosphorus	ppm	ASTM D5185m		1175	---	---
Zinc	ppm	ASTM D5185m		1614	---	---
Sulfur	ppm	ASTM D5185m		5123	---	---
Visc @ 40°C	cSt	ASTM D445		48.5	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP432895 **Received** : 20 Oct 2023
Lab Number : 05985086 **Tested** : 24 Oct 2023
Unique Number : 10702381 **Diagnosed** : 26 Feb 2024 - Doug Bogart
Test Package : MOB 1 (Additional Tests: KF)

TRADER CONSTRUCTION-VC
 P.O. DRAWER 1578
 NEW BERN, NC
 US 28563
 Contact: JOSH HUMPHREYS

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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