



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL



Area
[11976]
Machine Id
VOLVO L120F 66750
Component
Diesel Engine
Fluid
VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP444089	VCE157479	---
Sample Date		Client Info		24 Jan 2024	28 Mar 2013	---
Machine Age	hrs	Client Info		19000	7247	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	N/A	---
Sample Status				SEVERE	NORMAL	---

WEAR

The copper level is abnormal.

Iron	ppm	ASTM D5185m	>100	14	10	---
Chromium	ppm	ASTM D5185m	>10	1	<1	---
Nickel	ppm	ASTM D5185m	>10	2	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	<1	0	---
Aluminum	ppm	ASTM D5185m	>10	5	2	---
Lead	ppm	ASTM D5185m	>20	8	3	---
Copper	ppm	ASTM D5185m	>15	▲ 54	30	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

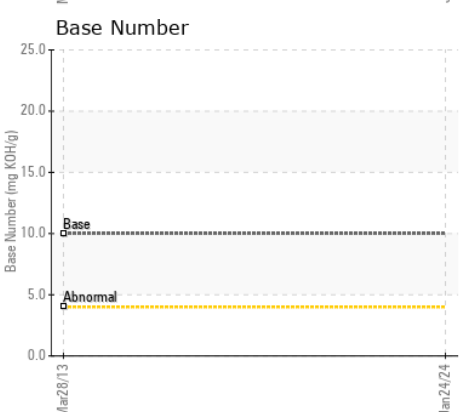
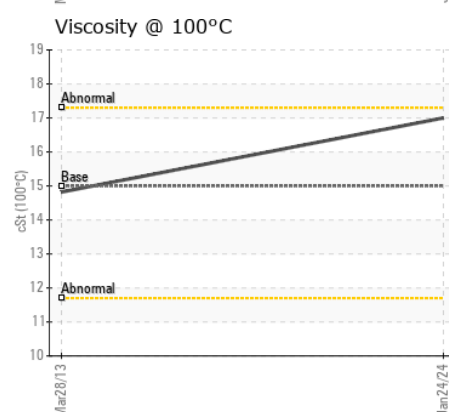
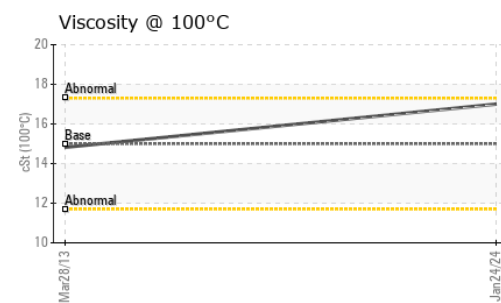
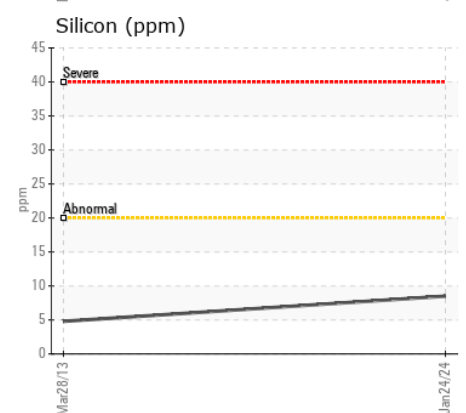
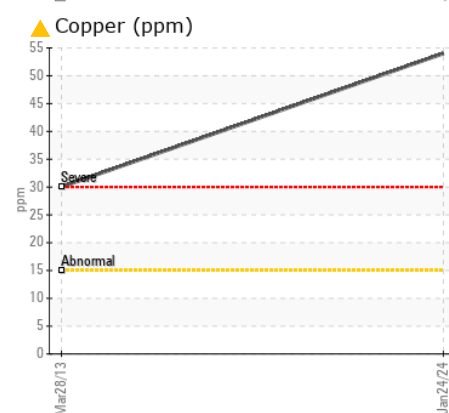
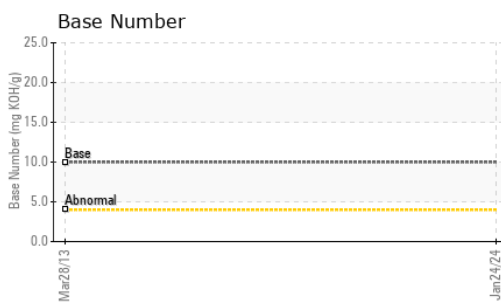
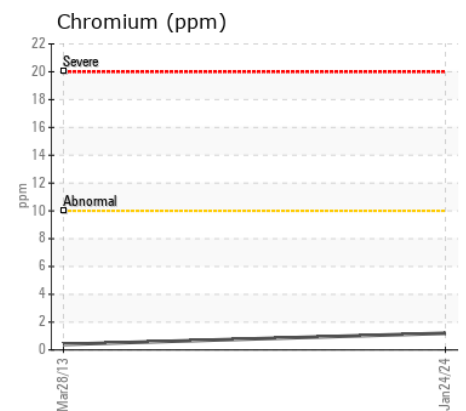
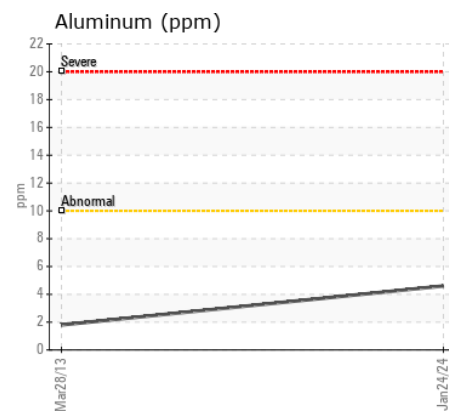
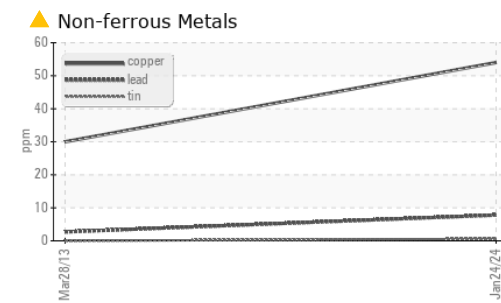
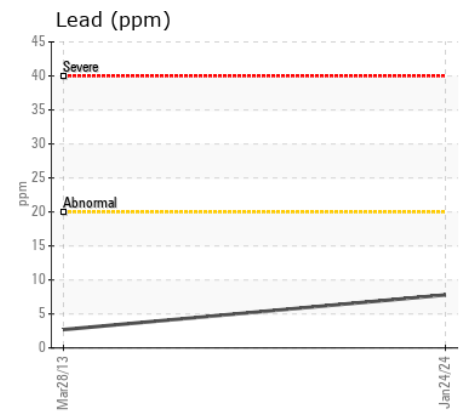
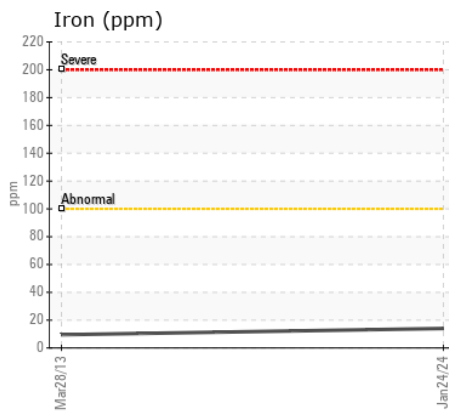
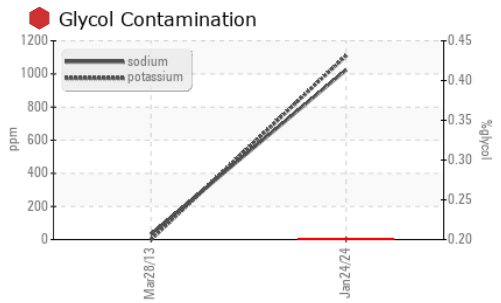
Sodium and/or potassium levels are high. Test for glycol is positive. There is a high concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185m	>20	8	5	---
Potassium	ppm	ASTM D5185m	>20	▲ 1110	0	---
Fuel		WC Method	>6.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol	%	*ASTM D2982		◆ 0.20	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	11.5	5.	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.	---
Silt	scalar	*Visual	NONE	NONE	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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		▲ 1024	32	---
Boron	ppm	ASTM D5185m	2.5	52	47	---
Barium	ppm	ASTM D5185m	0.0	0	0	---
Molybdenum	ppm	ASTM D5185m	0.7	171	<1	---
Manganese	ppm	ASTM D5185m	0.0	2	<1	---
Magnesium	ppm	ASTM D5185m	256	945	7	---
Calcium	ppm	ASTM D5185m	2057	859	2254	---
Phosphorus	ppm	ASTM D5185m	935	1139	936	---
Zinc	ppm	ASTM D5185m	1223	1292	1115	---
Sulfur	ppm	ASTM D5185m	4079	3513	3991	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	12.	---
Base Number (BN)	mg KOH/g	ASTM D2896	10	24.5	---	---
Visc @ 100°C	cSt	ASTM D445	15.0	17.0	14.82	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP444089 **Received** : 31 Jan 2024
Lab Number : 06075485 **Diagnosed** : 01 Feb 2024
Unique Number : 10857576 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: Glycol, TBN)

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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