



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L180H 5444
Component
Transmission (Auto)
Fluid
VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VKC0001103	VKC0000729	---
Sample Date		Client Info		30 Jan 2024	17 May 2023	---
Machine Age	hrs	Client Info		6352	4856	---
Oil Age	hrs	Client Info		1000	0	---
Filter Age	hrs	Client Info		1000	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	18	17	---
Chromium	ppm	ASTM D5185m	>5	0	0	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>5	0	0	---
Aluminum	ppm	ASTM D5185m	>50	<1	0	---
Lead	ppm	ASTM D5185m	>50	0	0	---
Copper	ppm	ASTM D5185m	>225	4	2	---
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

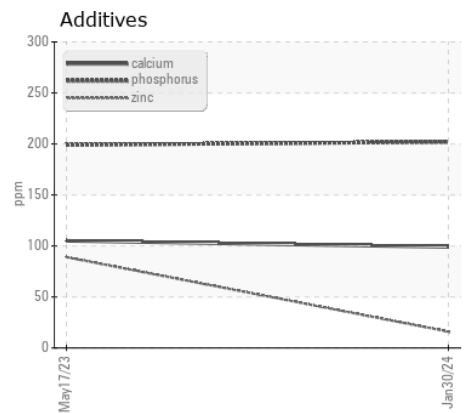
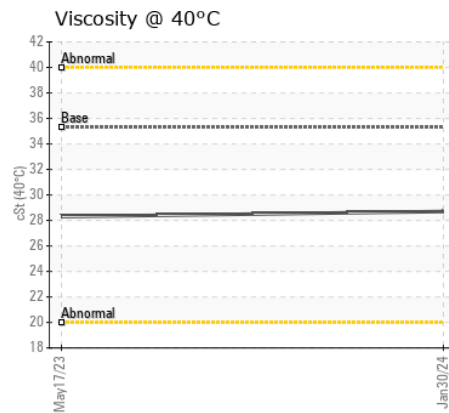
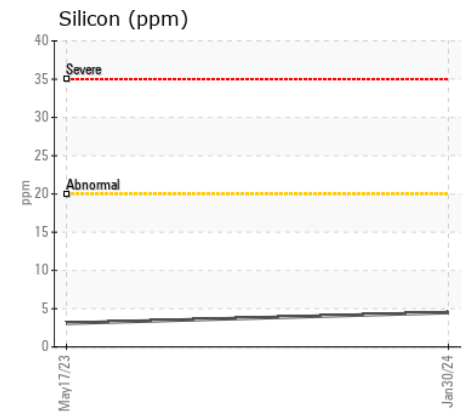
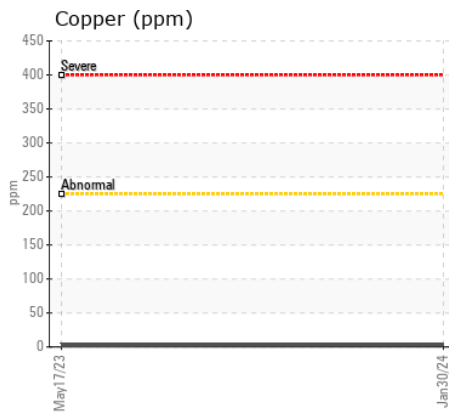
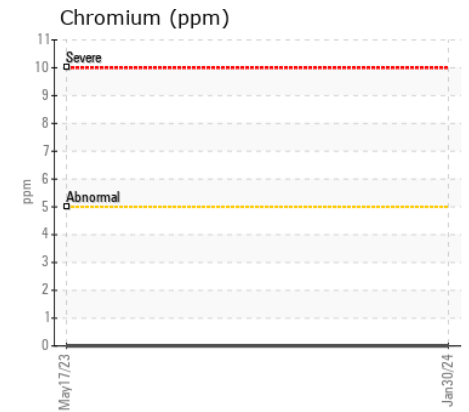
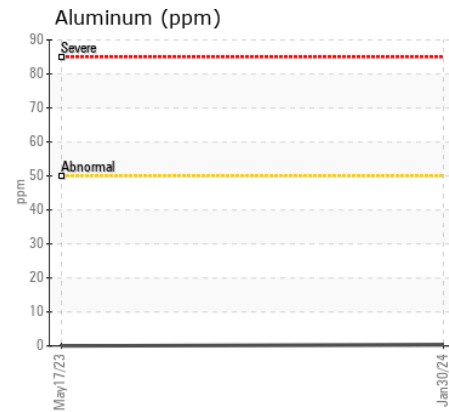
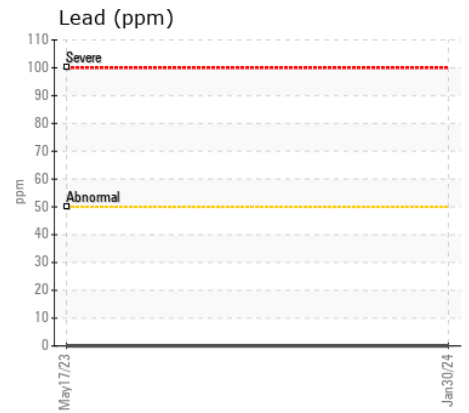
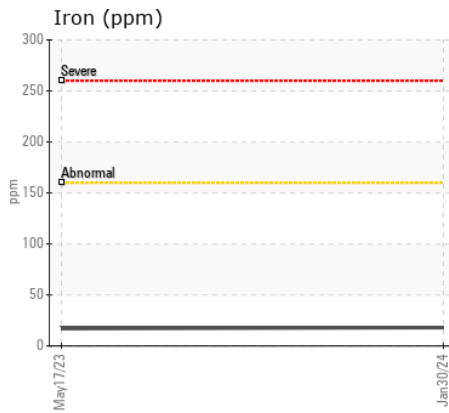
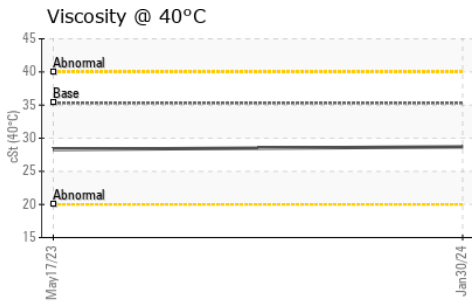
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	4	3	---
Potassium	ppm	ASTM D5185m	>20	<1	<1	---
Water		WC Method	>0.1	NEG	NEG	---
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 condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	2	---
Boron	ppm	ASTM D5185m	187	80	82	---
Barium	ppm	ASTM D5185m	0.0	0	12	---
Molybdenum	ppm	ASTM D5185m	0.0	0	<1	---
Manganese	ppm	ASTM D5185m	0.0	1	1	---
Magnesium	ppm	ASTM D5185m	6.8	0	15	---
Calcium	ppm	ASTM D5185m	215	99	105	---
Phosphorus	ppm	ASTM D5185m	445	202	199	---
Zinc	ppm	ASTM D5185m	56	16	89	---
Sulfur	ppm	ASTM D5185m	1336	1894	1896	---
Visc @ 40°C	cSt	ASTM D445	35.3	28.7	28.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VKC0001103 **Received** : 13 Feb 2024
Lab Number : 06088440 **Tested** : 14 Feb 2024
Unique Number : 10875885 **Diagnosed** : 14 Feb 2024 - Wes Davis
Test Package : MOBCE

GW VAN KEPPEL CO
 1801 NORTH 9TH ST
 KANSAS CITY, KS
 US 66110
 Contact: PAT SAUSE
 psause@vankeppel.com

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) F: (913)281-4815